AD-A063314

FTD-ID(RS)T-1154-78

1

FOREIGN TECHNOLOGY DIVISION

HANDBOOK ON A CLIMATE OF THE USSR

Issue 8, Part V

DDC
RECEIVED
23 JUNE 1979
E

Approved for public release;
distribution unlimited.

FTD-ID(RS)T-1154-78

UNEDITED MACHINE TRANSLATION

FTD-ID(RS)T-1154-78 6 October 1978

MICROFICHE NR: FTD-78-C-001379

HANDBOOK ON A CLIMATE OF THE USSR
ISSUE 8, PART V

English pages: 259

Source: Spravochnik po Klimatu SSSR, Issue 8, Part V, Gidrometeorologicheskoye Izd-vo, Leningrad, 1968

Country of origin: USSR
This document is a machine translation
Requester: FTD/WE
Approved for public release; distribution unlimited.

ACCESSION for
NTIS White Section
DDC Buff Section
UNANNOUNCED
JUSTIFICATION
BY
DISTRIBUTION/AVAILABILITY CODES
Dist. AVAIL. and/or SPECIAL
A

THIS TRANSLATION IS A RENDITION OF THE ORIGINAL FOREIGN TEXT WITHOUT ANY ANALYTICAL OR EDITORIAL COMMENT. STATEMENTS OR THEORIES ADVOCATED OR IMPLIED ARE THOSE OF THE SOURCE AND DO NOT NECESSARILY REFLECT THE POSITION OR OPINION OF THE FOREIGN TECHNOLOGY DIVISION.

PREPARED BY:

TRANSLATION DIVISION
FOREIGN TECHNOLOGY DIVISION
WP-AFB, OHIO.

Table of Contents

U.S. Board on Geographic Names Transliteration System..... ii

Preface..... 1

General Information the Short Characteristic of the Conditions of Cloudiness and of Atmospheric Phenomena..... 5

Explanations to Tables..... 69

Section 1. Cloudiness..... 69

Section 2. Fog..... 89

Section 3. Snow Storms..... 96

Section 4. Thunderstorm..... 108

Section 5. Hail..... 114

Section 1. Cloud Cover..... 116

Section 2. Fogs..... 168

Section 3. Snowstorms..... 196

Section 4. Storms..... 215

Section 5. Hail..... 227

List of Meterological Stations and Posts..... 255

Necessary Corrections to "Reference Book On Climate of the USSR", 8th Edition..... 259

U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	*А а*	A, a	Р р	*Р р*	R, r
Б б	*Б б*	B, b	С с	*С с*	S, s
В в	*В в*	V, v	Т т	*Т т*	T, t
Г г	*Г г*	G, g	У у	*У у*	U, u
Д д	*Д д*	D, d	Ф ф	*Ф ф*	F, f
Е е	*Е е*	Ye, ye; E, e*	Х х	*Х х*	Kh, kh
Ж ж	*Ж ж*	Zh, zh	Ц ц	*Ц ц*	Ts, ts
З з	*З з*	Z, z	Ч ч	*Ч ч*	Ch, ch
И и	*И и*	I, i	Ш ш	*Ш ш*	Sh, sh
Й й	*Й й*	Y, y	Щ щ	*Щ щ*	Shch, shch
К к	*К к*	K, k	Ъ ъ	*Ъ ъ*	"
Л л	*Л л*	L, l	Ы ы	*Ы ы*	Y, y
М м	*М м*	M, m	Ь ь	*Ь ь*	'
Н н	*Н н*	N, n	Э э	*Э э*	E, e
О о	*О о*	O, o	Ю ю	*Ю ю*	Yu, yu
П п	*П п*	P, p	Я я	*Я я*	Ya, ya

*ye initially, after vowels, and after ъ, ь; e elsewhere.
When written as ё in Russian, transliterate as yё or ё.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	$\sinh^{-1}$
cos	cos	ch	cosh	arc ch	$\cosh^{-1}$
tg	tan	th	tanh	arc th	$\tanh^{-1}$
ctg	cot	cth	coth	arc cth	$\coth^{-1}$
sec	sec	sch	sech	arc sch	sech^{-1}
cosec	csc	csch	csch	arc csch	csch^{-1}

Russian	English
rot	curl
lg	log

Pages 2-4 No Typing.
Translator's Note: Transliterated station list by number is [illegible] on page [illegible] translation

Page 5.

PREFACE.

"Handbook on the climate of the USSR" consists of 34 issues, comprised by the controls of hydrometeorological service employing single program and the procedure, developed of main geophysical observatory and ty the affirmed editorial board of GUGMS with the Council of Ministers of USSR under corresponding member's chairmanship of the AN USSR M. I. Buduko.

Each issue of "Handbook on a climate of USSR" consists of five parts which contain the characteristics of individual climate elements: Part I - Solar radiation, radiation balance, and solar aurora; Part II - Air and soil temperature; Part III - Wind; Part IV - Air humidity, precipitation, and snow cover; and Part V - cloud cover and atmospheric phenomena.

The "Handbook on climate of the USSR", issue 8, the territory of eight central regions RSFSR: Yaroslavl, Kalinin, Moscow, Vladimir, Smolensk, Kaluga, Ryazansk and Tula.

This edition of "Handbook on a climate of USSR", Chapt. V, consists of five sections: section 1 - cloudiness, section 2 - fog, section 3 - snowstorm, section 4 - thunderstorm and section 5 - hail.

During the composition of handbook, are used the materials of the observations of 265 stations and posts.

BEST AVAILABLE COPY

Material is represent/presented on separate stations and posts in the form of tables with explanatory text in each table.

Tables 8 and 9 sections 1 and table 4, 5 and 6 sections 4 are calculated with the aid of calculating-analytical machines in by Novosibirsk the branch of the scientific research institute of aeroclimatology under leadership by Cand. of the geographic sciences S. D. Koshinskiy.

In text part is given the short characteristic of the conditions/mode of cloudiness and atmospheric phenomena - fog, snow storm, thunderstorm and hail.

In comparison with "climatological handbook of USSR" publication 1949 present issue is supplemented by the tables of cloud amount of middle level, frequency of the cloud geni, probability of different number of days with the atmospheric phenomena in separate years and other tables. During the composition of the tables, are used the observations on 1965.

"Handbook on a climate of USSR" of iss. 8, is prepared for press/imprint by the colleagues of the Moscow hydrometeorologic observatory: O. B. Zvorykina, L. D. Solov'yeva, with the participation of V. P. Silina,

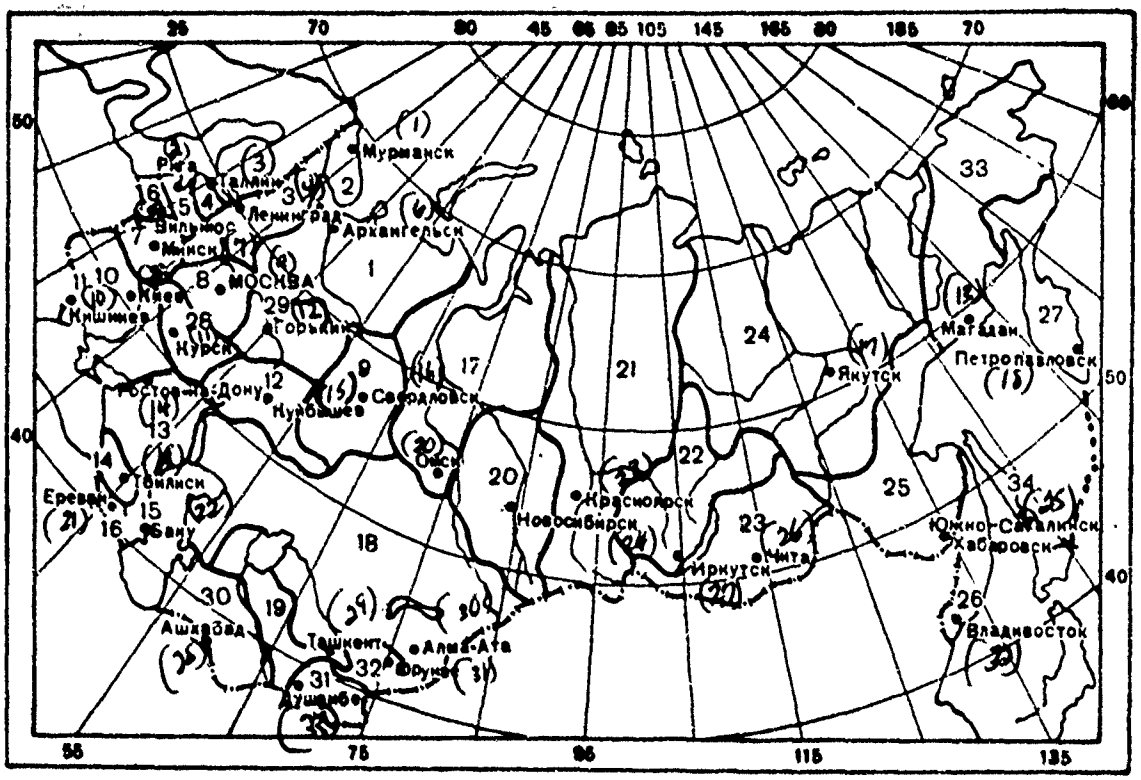
E. D. Sotnikova, by L. I. Orlovoy and by N. A. Shipilova under common/general/total leadership and with the participation of the division head of P. B. Shekhtman's climate.

Scientific systematic leadership in the process of the preparation of handbook was carried out by scientific workers of the division of the climatology of the main geophysical observatory im. A. I. Voeikov. The scientific appraisal/review of material and the editing of text are realized by L. Ye. Anapol'skoy, M. Ya. Glebovoy, by N. V. Smirnova and R. F. Sokhrinoy.

The common/general/total scientific systematic leadership was carried out by Cand. of the geographic sciences V. V. Orlovoy.

Page 6.

The composite chart of the issues of "handbook on a climate of the USSR".



Key: (1). Murmansk. (2). Riga. (3). Tallin. (4). Leningrad. (5). Vilnyus. (6). Arkhangel'sk. (7). Minsk. (8). Kiev. (9). Moscow. (10). Kishinev. (11). Kursk. (12). Gor'kiy. (13). Magadan. (14). Rostov on the Don. (15). Kuybyshev. (16). Sverdlovsk. (17). Yakutsk. (18). Petropavlovsk. (19). Tbilisi. (20). Omsk. (21). Yerevan. (22). Baku. (23). Krasnoyarsk. (24). Novosibirsk. (25). Yuzhno-sakhalinsk. (26). Chita. (27). Irkutsk. (28). Ashkhabad. (29). Tashkent. (30). Alma

Ata. (31). Frunze. (32). Vladivostck. (33). Dushanbe.

Page 7.

GENERAL INFORMATION THE SHORT CHARACTERISTIC OF THE CONDITIONS OF CLOUDINESS AND OF ATMOSPHERIC PHENOMENA.

The territory in question is arrange/located in the center section of the vast Russian plain. Its surface is slightly undulating, gashed by the numerous valleys of rivers, by ravines and ridge/ranges of hills. The Western and southern parts of it are elevated. In the western part of the territory, is the system of elevations and ridge/ranges, in east - in essence the weakly-heaped part of plain, by the places low. Most elevated is the northwestern part of the territory where passes Valdayskiy elevation height of which as places it reaches almost 345 m above sea level. To south from it, is arrange/located the Smolensk-Moscow elevation, in eastern part which converts into Klin-Dimtrovsk ridge/range. The southern part of the territory (south of Moscow, the eastern part of Kaluga, the Tula and southwestern outskirts of Ryanzanskayas province) is occupied with Middle-Russian elevation up to 300 m in heights ones above sea level.

Elevations are alternated with by flat plains 100-150 m in

heights ones above sea level. To the east from Valdai and to north from Smolensk-Moscow elevation is located Upper-Volga low place. In a northeastern part of the territory, is arrange/located the Mologo-Sheksninsk low place, partially occupied with Rybinsk reservoir. Relief here is characterized by alternating morainal hills, ridges, by ridge/ranges of glacial origin and by lowlands with altitude difference 50-80 m.

To the south and the southeast from Klin-Dmitrovsk ridge/range in the interfluve of the Oka and Klyaz'ma, is arrange/located Meshchersk lowland.

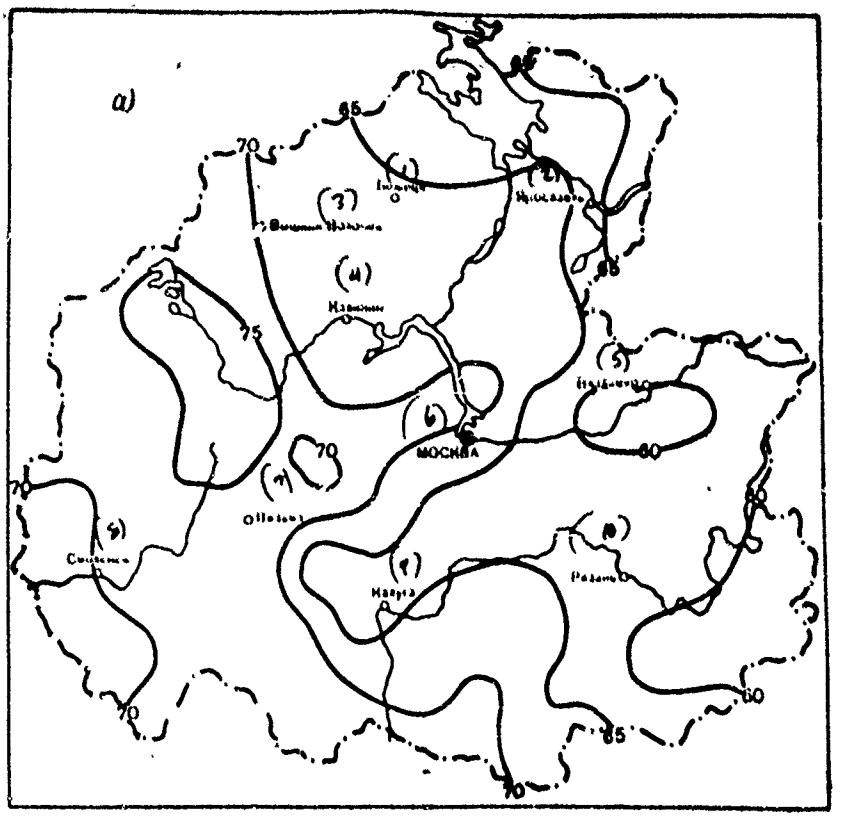
Most significant water object in this territory - Volga with the inflows, of which the large and the water-abundant ones is Oka. In the northwestern part of the territory, there are many lakes. Besides natural water reservoirs, large place occupy artificial basins - reservoirs and channels. Largest of them - Rybinsk and Moscow reservoirs.

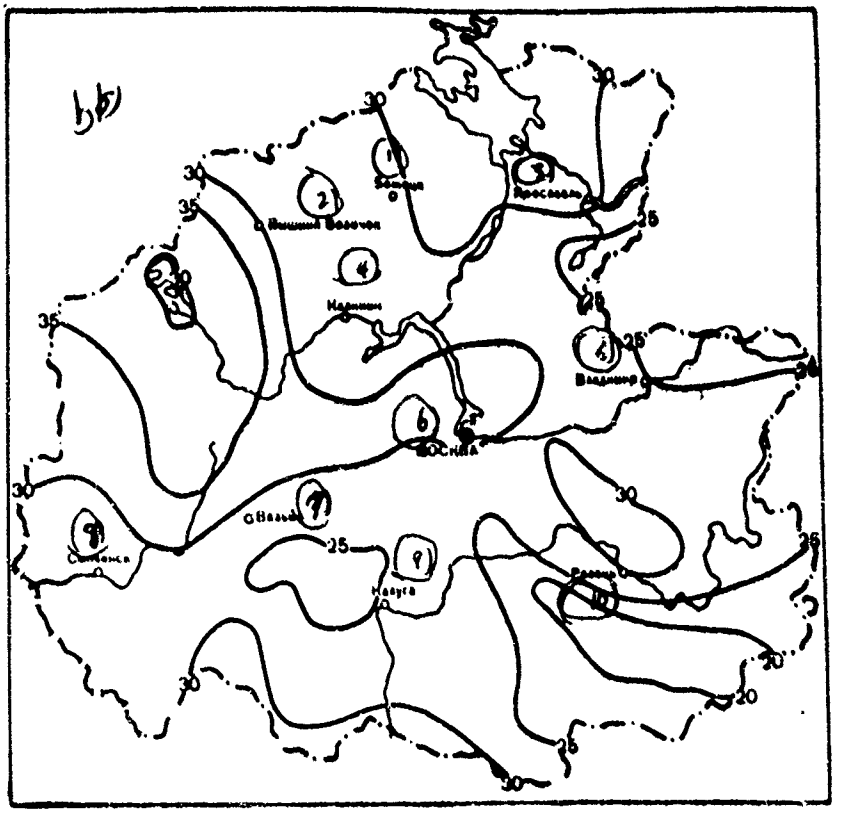
Cloudiness.

To the formation of cloudiness, has great effect the atmosphere circulation. During entire year the territory of central regions is

located in transition strip from high-pressure zone in south to the zone of reduced pressure on north i.e. in the band of the supremacy of the western winds. However, the effect of Atlantic in proportion to advance to the east weakens, that manifests itself magnitude and character of cloudiness - in all seasons of year the cloudiness in the east of territory less than the west.

Рис. 8.


а)
МОСКВА
Калинин
Смоленск
Тула
Рязань
Калуга
Вологда
Ярославль
Владимир
65
70
75
80
60


б)
МОСКВА
Калинин
Ярославль
Владимир
Смоленск
Калуга
Рязань
Вологда
30
35
25
20

Page 8 continued

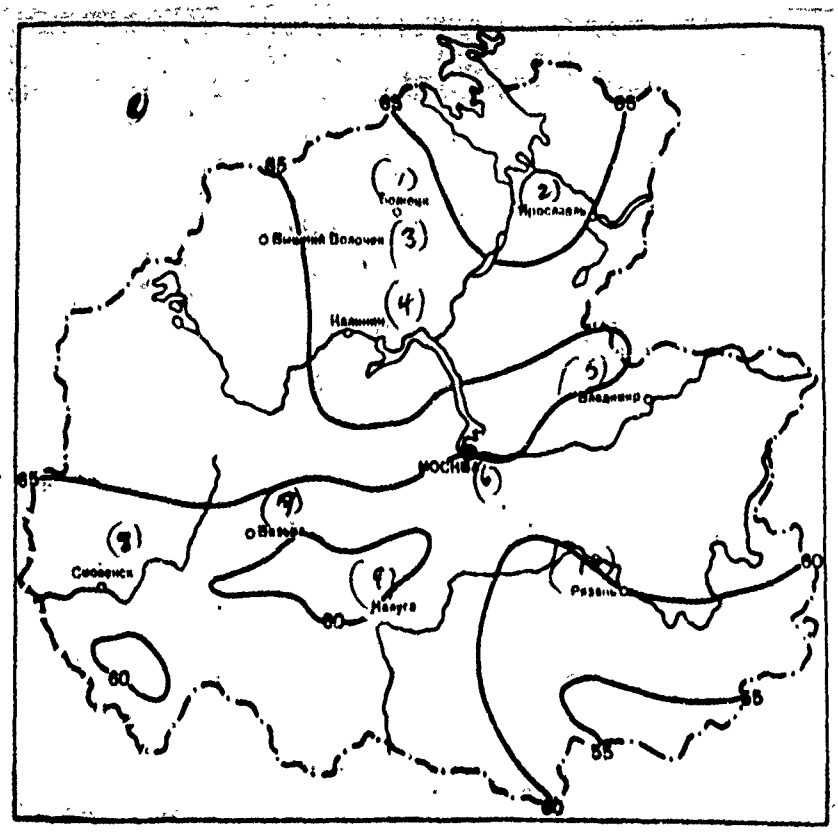


Fig. 1. Frequency (o/o) of cloudy sky (8-10 balls) on lower cloudiness. a) January, b) July, c) October.

Key: (1). Bezhetsk. (2). Yaroslavl. (3). Vyshniy Volovey. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Vyaz'ma. (8). Smolensk. (9). Kaluga. (10). Ryazan.

Page 9.

The effect of circulation factor on the distribution of cloudiness according to this territory is supplemented even by the effect of relief. Above the elevated western part of the territory, atmospheric fronts are peaked, which leads to an increase in the cloudiness (Fig. 1).

From the figure one can see that the frequency of cloudy sky condition (8-10 balls) in January composes 55-60o/o in the east of territory and 70-74o/o in west, during July 20-25 and 30-34o/o respectively. Approximately this distribution of frequency according to territory is retained in all seasons of year, namely: somewhat larger than differences in frequency on territory are noted by winter and it is smaller - in transient months and in summer.

In annual variation great cloudiness is noted in the cold period from November through January, when the frequency of cloudy sky condition (8-10 balls) on common/general/total cloudiness composes on territory 75-85o/o, with maximum during December. This one can see well on average monthly cloudiness. As show to Fig. 2, a quantity of average monthly cloudiness it reaches maximum (about 8 balls on lower and 8.5-9.0 balls on common/general/total cloudiness) during December. Beginning from January cloudiness it decreases first

insignificantly, and then (from March) it is sufficient noticeably; the minimum is observed during June and July. From August the cloudiness again noticeably increases to maximus during December.

Like the conditions of atmospheric circulation, cloudiness from year to year strongly varies (Table 1).

Page 10.

On data Table 1, it is possible to present the possible oscillation/vibrations of the frequency of clear (0-2 balls) and

cloudy (8-10 balls) sky condition in separate years during a 25-year-old period. Oscillation/vibrations in separate years in common/general/total and lower cloudiness are different. The greatest oscillation/vibrations of the frequency of cloudy sky condition on common/general/total cloudiness are observed in the warm period of year and they reach 57o/o. On lower cloudiness the greatest oscillation/vibrations are noted in winter months (to 60o/o). Generally a change of the frequency of lower cloudiness in separate years is greater common/general/total during entire year.

For practical target/purposes high significance has mainly lower cloudiness. The representation of the relationship/ratio between lower and common/general/total cloudiness gives the curve/graph of their annual variation (Fig. 3).

The daily variation of cloudiness is most pronounced in the warm period of year when in the daytime of days is most developed convection. This it is possible to trace according to observations above cloudiness into different hours of days (7 and 13 hours).

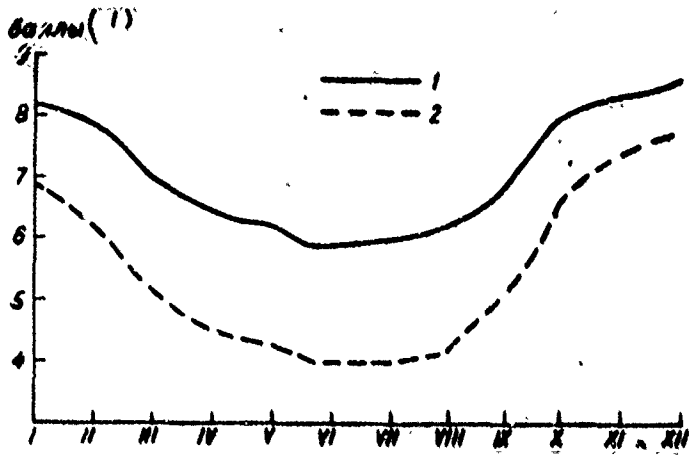


Fig. 2. The annual variation of cloud amount of middle level. Moscow. 1 - common/general/total, 2 - lower.

Key: (1). Balls.

Table I. Greatest and smallest frequency (c/o) of cloudy (8-10 balls) and clear (0-2 balls) sky condition on common/general/total (without depending on cloud forms) and lower cloudiness during the period of 1936-1960 Moscow.

Table I.

Повторяемость (1)	Облачность (2)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
		Пасмурное состояние неба (3)											
Наибольшая (4)	Общая (5)	92	88	87	78	79	72	79	78	80	90	94	97
	Нижняя (6)	91	87	85	59	53	57	55	55	75	82	91	94
Наименьшая (7)	Общая (5)	63	56	49	34	35	27	32	21	38	54	62	63
	Нижняя (6)	37	24	32	20	9	10	4	2	10	43	47	53
		Ясное состояние неба (8)											
Наибольшая (4)	Общая (5)	35	38	43	43	44	42	45	57	48	30	30	32
	Нижняя (6)	61	79	64	72	74	70	81	88	87	48	50	41
Наименьшая (7)	Общая (5)	4	6	7	14	12	15	13	9	8	6	1	1
	Нижняя (6)	4	15	11	26	35	26	13	24	13	12	1	3

Key: (1). Frequency. (2). Cloudiness. (3). Cloudy sky condition. (4). Greatest. (5). Common/general/total. (6). Lower. (7). Smallest. (8). Clear sky condition.

Page 11.

In winter period in the territory in question predominates cloudy sky condition (8-10 balls) which little is changed in the course twenty-four hours - cloudiness into 7 and 13 hours is distinguished insignificantly. In warm period, from April through September, that predominate is the morning (7 hours) clear sky condition, and in the daytime (13 hours) semi-clear - intermittent cloudiness (Fig. 4).

In practice for the characteristic of cloudiness, besides the frequency of different gradations of cloudiness, they use data on a number of clear and cloudy days. In this territory an annual number of clear days increases from west to the east from 50-55 to 100-104 (Fig. 5a), and a number of cloudy days with respect decreases from 130-134 to 80-90 days (Fig. 5b).

The annual variation of a number of clear and cloudy days follows the course of the frequency of clear and cloudy sky (Fig. 6).

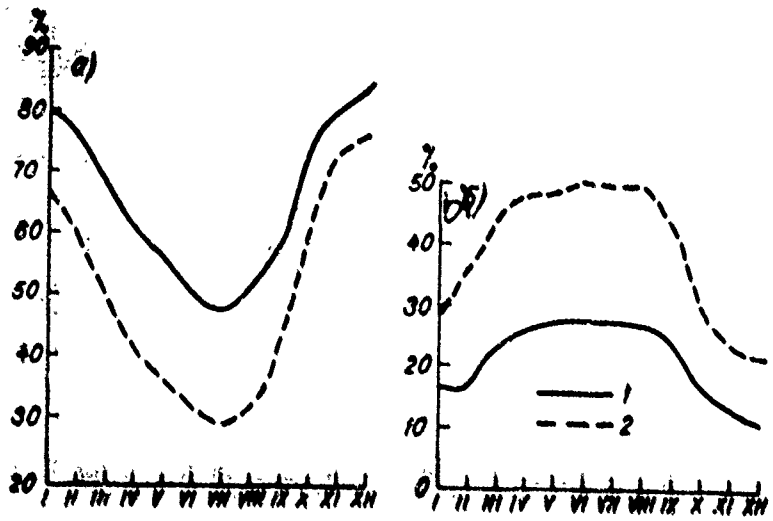


Fig. 3. Annual variation of the frequency (o/o) of cloudy (a) and clear (b) sky on common/general/total (1) and lower (2) cloudiness, Moscow.

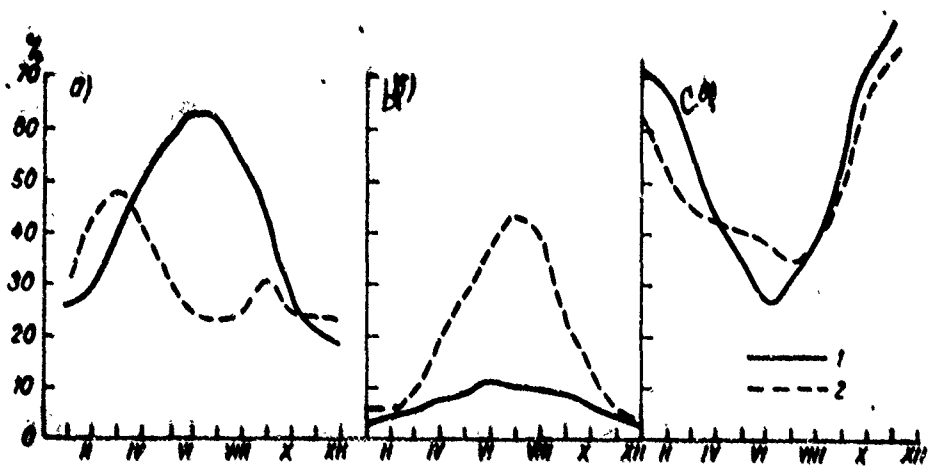
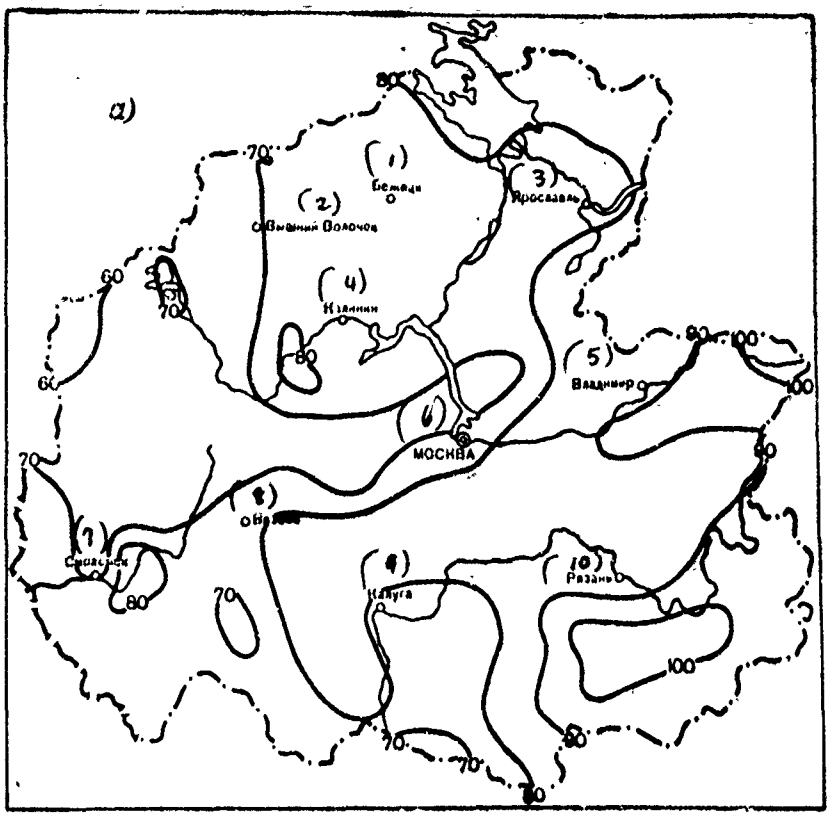


Fig. 4. Daily variation of frequency (o/o) of clear (a) semi-clear (b) and cloudy (c) sky on lower cloudiness. Moscow. 1 - 7 hours, 2 - 13 hours.

Page 12.


a)
(1)
Бежецк
(2)
Вышний Волочек
(3)
Ярославль
(4)
Калинин
(5)
Владимир
(6)
МОСКВА
(7)
Смоленск
(8)
(9)
Калуга
(10)
Рязань

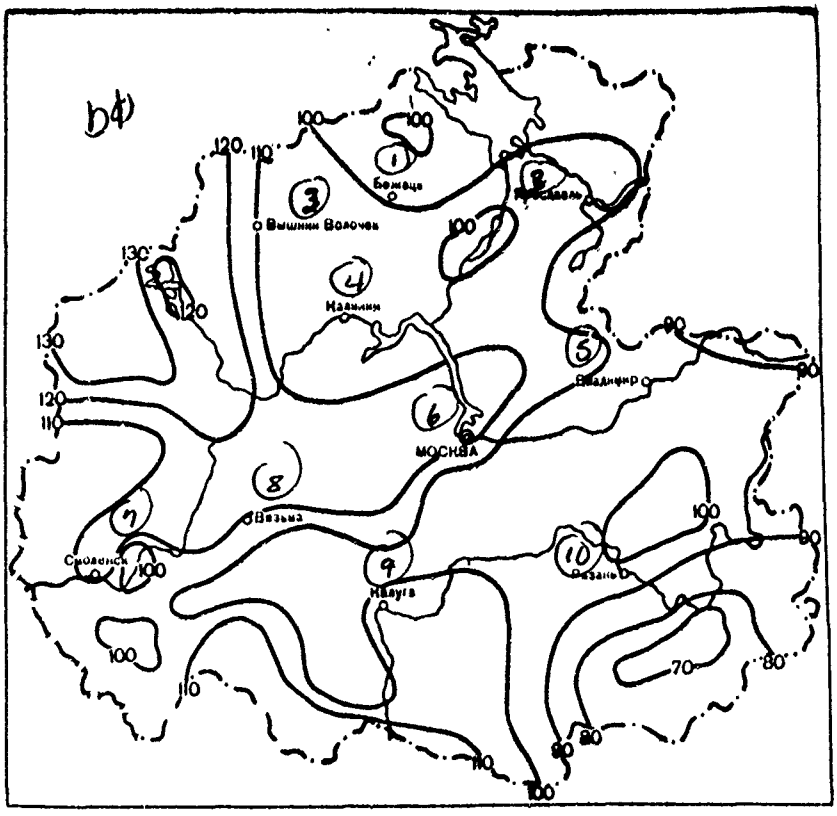

b)
(1)
Бежецк
(2)
(3)
Вышний Волочек
(4)
Калинин
(5)
Владимир
(6)
МОСКВА
(7)
Смоленск
(8)
Вязьма
(9)
Калуга
(10)
Рязань

Fig. 5. Number of clear (a) and cloudy (b) days on lower cloudiness, year.

Key: (1). Bezhetsk. (2). Vyshniy Volochek. (3). Yaroslavl. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Smolensk. (8). Vyaz'ma. (9). Kaluga. (10). Ryazan.

Page 13.

An increase of the cloudiness and, consequently, also numbers of cloudy days in cold period is connected with the intensification of cyclonic activity at this time of year, with inflow of relatively warm humid masses of air with Atlantic, in which even the small cooling of air leads to condensation and education/formation of continuous cloud cover. With the weakening of cyclonic circulation number of cloudy days decreases - their small number from May through August comprises on the average/mean 3-5 on lower and 6-10 days on common/general/total cloudiness. This is connected with the fact that in summer basic atmospheric process is transformation of an air mass, by which the incoming from Atlantic and from the Arctic air is warmed thoroughly above the earth's surface and in lower layer is driven out from saturation state.

A number of clear days has, it is logical, back stroke - a small

number of clear days is noted in cold period, great - into warm. However, even in the summer period of year a number of clear days on lower cloudiness does not exceed 7-8 in west even 10-12 in the east and the southeast, but on common/general/total cloudiness, i.e., taking into account the clouds of the upper and average of tiers, it composes a total of 2-5 days into month.

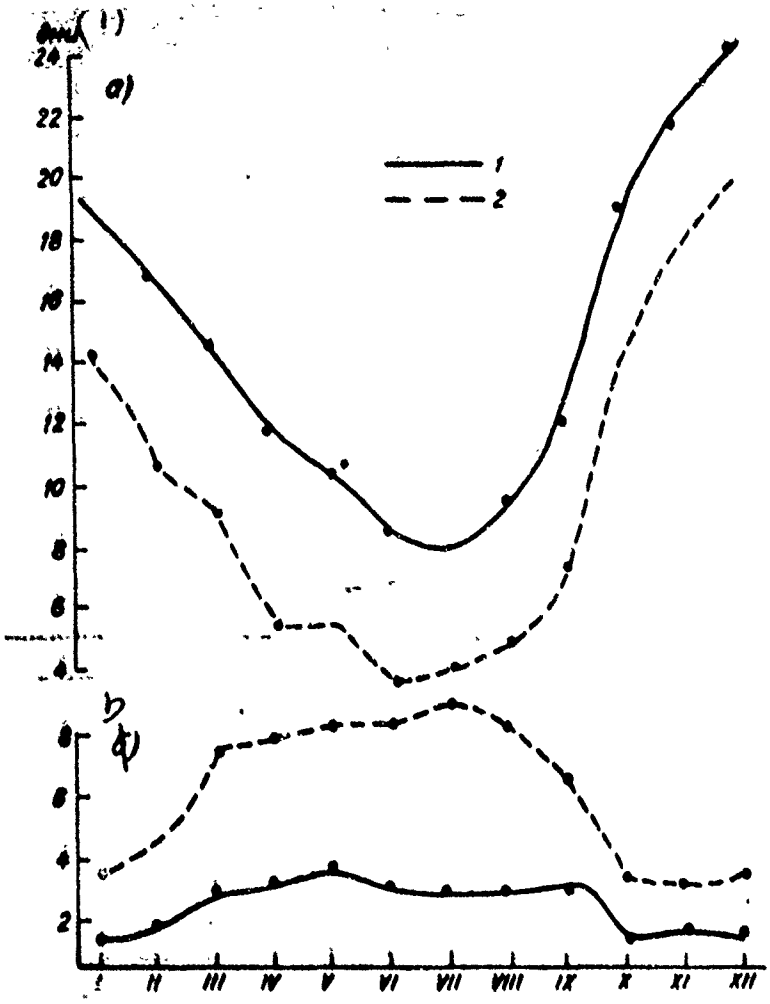
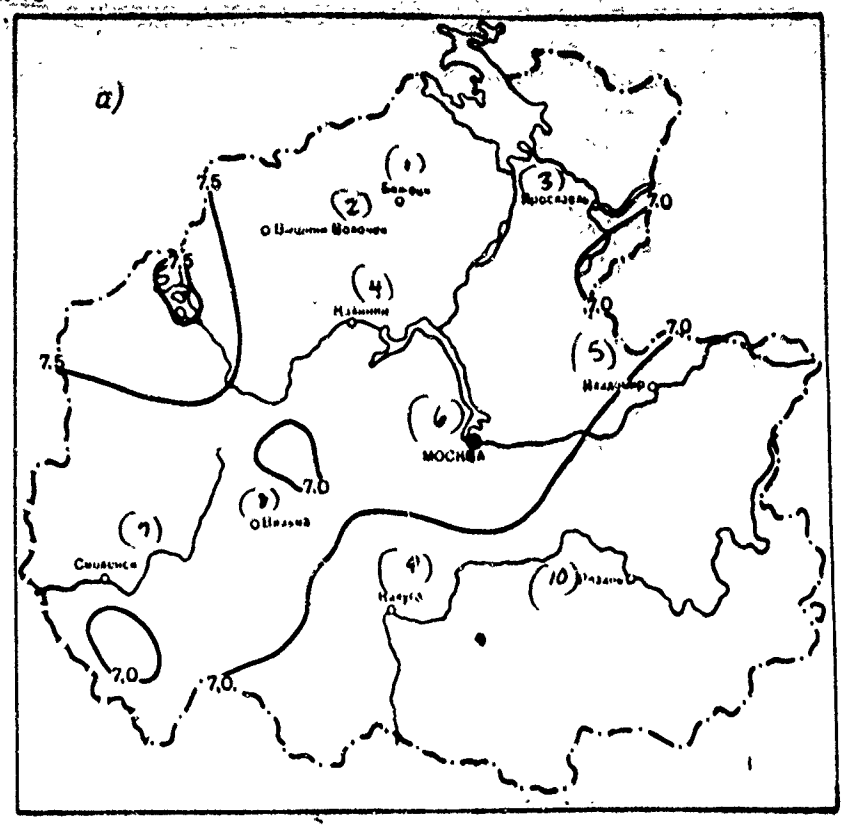


Fig. 6. The annual variation of a number of cloudy (a) and clear (b) days on common/general/total (1) and lower (2) cloudiness Moscow.

Key: (1). days.

Page 14.


а)
7,5
7,5
7,5
7,0
7,0
7,0
7,0
7,0
7,0
(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)
(10)
МОСКВА

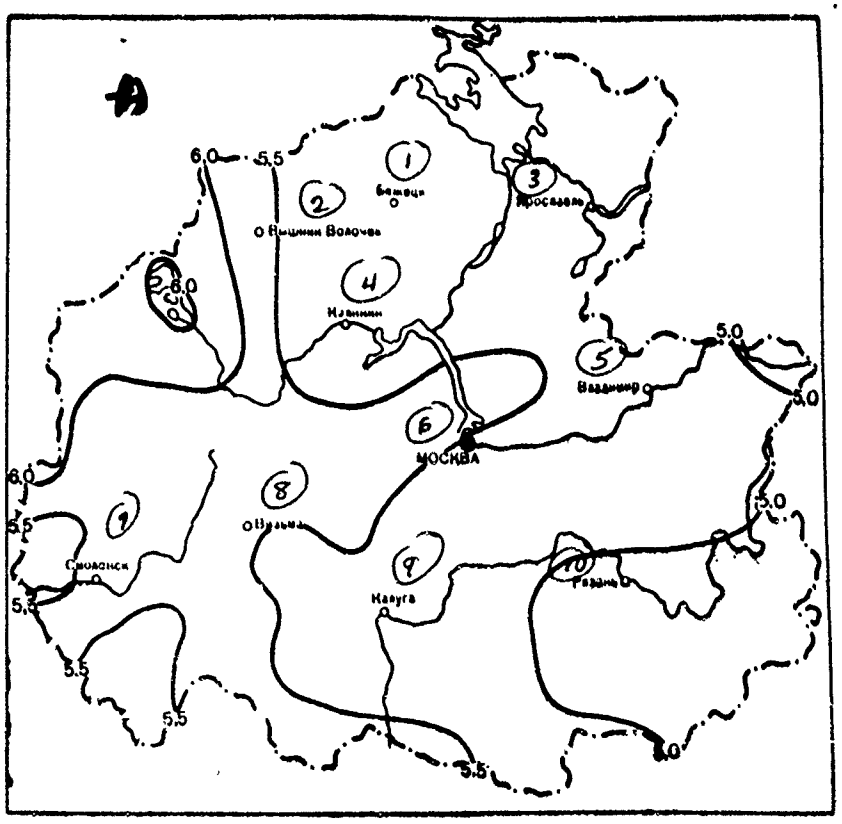

б)
6,0
5,5
6,0
5,0
5,0
5,0
6,0
5,5
5,5
5,5
5,5
5,0
(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)
(10)
МОСКВА

Fig. 7. Average common/general/total (a) and lower (b) cloudiness (balls). Year.

Key: (1). Bozhetsk. (2). Vyshniy Volochek. (3). Yaroslavl. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Smolensk. (8). Vyaz'ma. (9). Kaluga. (10). Ryazan.

Page 15.

This is explained by the fact that in the majority of the cases in the days with good weather is observed in the daytime intermittent cloudiness of the cumulus forms whose quantity exceeds 2 balls. Such days into summer season sufficiently there are many; therefore from June through August when is especially developed convection, a number clear of days on common/general/total cloudiness somewhat decreases because of semi-clear days.

For some target/purposes, in essence for different calculations, they use data on cloud amount of middle level. In the territory in question cloud amount of middle level decreases from west to the east for year from 5.8-6.2 to 4.5-5.0 balls (Fig. 7).

The annual variation of cloud amount of middle level is represent/presented in Fig. 2.

The daily variation of cloud amount of middle level, can be judged from observations into different ones the watches of days, in particular 7 and 13 hour. As can be seen from Fig. 8, in the cold period of year (October-March) general and lower cloudiness 7 hours is more than 13 hours because of morning laminar cloudiness. In warm period, on the contrary, 7 hours cloudiness is less than 13 hours, as it was already said, as a result of daytime convection.

Quantitative data of common/general/total and lower cloudiness do not give a sufficient representation of the character of cloudiness. In addition to quantitative characteristics in Handbook, is given the information about the frequency of the forms of cloudiness, which has different effect on the course of other weather constituents, for example for solar radiation and raiiation, illumination, the temperature of air and ground and so forth.

On the average for year greatest frequency (about 50-60o/o of all cases of clouliness) have stratocumulus clouds of lower layer (Sc) and altocumulus middle clouds, above 2 km (Ac) (Fig. 9).

However, even some other cloud forms have sufficiently large frequency into the separate seasons of year, for example cumulus

(Cu), in the warm period of year. Figures 10, where is depicted the annual variation of four forms of cloudiness it is apparent that shows Sc and Ac have considerable frequency during year, Cu - a large frequency in the warm period of year, and Sc - in the cold period of year.

Although the cloudiness strongly is changed both in the space and in time however for some cloud forms, is reveal/detected clear annual and daily variation. So, the clouds of cumulus forms (Cu, Cb) in the warm period of year have large frequency in the daytime (13 hours) and insignificant at night and in the morning.

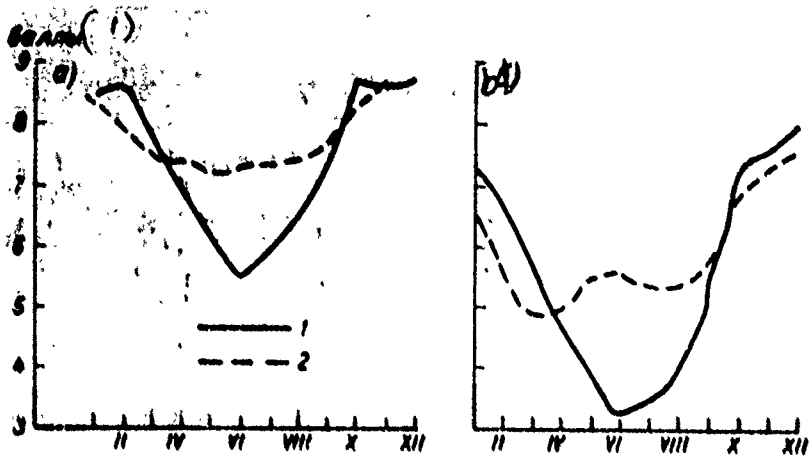


Fig. 8. Average common/general/total (a) and lower (b) cloudiness into different ones the watches of days. Moscow. 1 - 7 hours, 2 - 13 hours.

Key: (1). Balls.

Page 16.

Stratus have the less clearly expressed diurnal and annual variation; their large frequency into 7 and 13 hours is observed in the cold period of year. From May through September during all days, the frequency of the clouds of laminar forms is insignificant.

The frequency of the various forms of lower cloudiness with one and the same gradations of common/general/total cloudiness in the territory in question, as a rule, strongly varies. However, usually with common/general/total cloudiness 3 - 7 balls the greatest frequency have the marks of the lower cloudiness of 0-2 balls; with common/general/total cloudiness 8-10, predominates the frequency of the marks of the lower cloudiness also of of 8-10 balls. From other relationship/ratios frequently is observed the predominance of the marks of 0-2 balls both on common/general/total and on lower cloudiness.

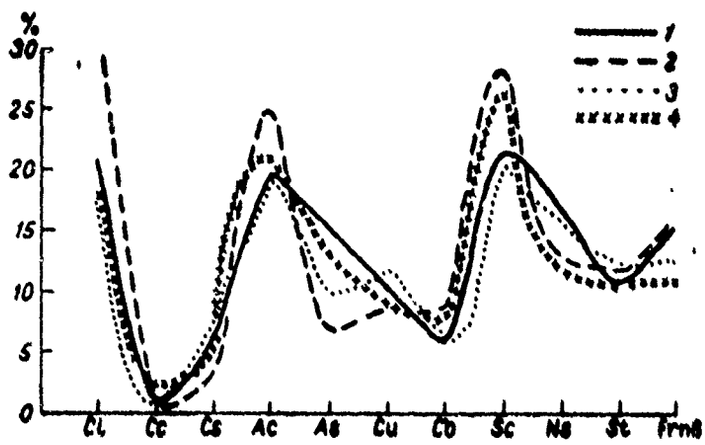


Fig. 9. Frequency (o/o) of cloud geni. year. 1 - Vyshniy Volochek, 2 - Smolensk, 3 - Moore, 4 - Tula.

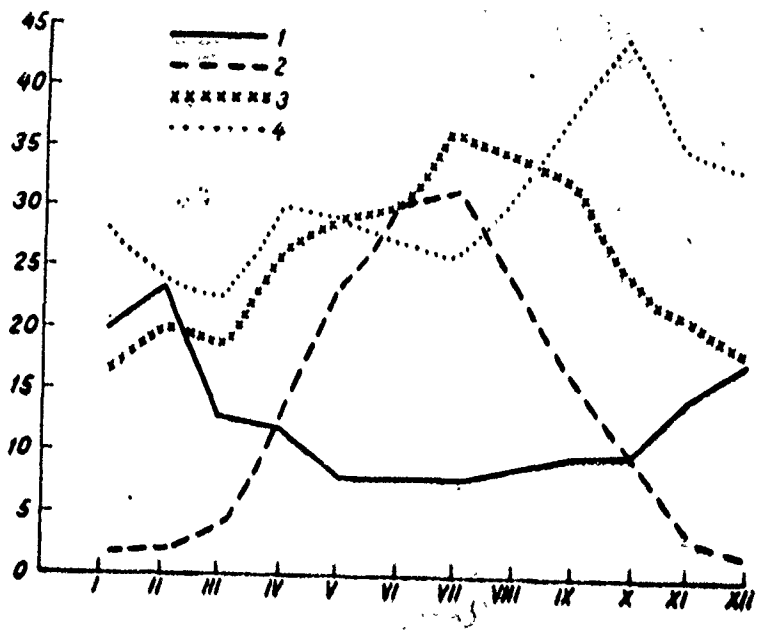


Fig. 10. Annual variation of separate cloud forms. Moscow. 1 - As, 2 - Cu, 3 - Ac, 4 - Sc.

Page 17.

Cloud height of lower tier decreases from winter to summer and grew/rises to autumn and winter. The height of clouds of average tier, on the contrary, increases from winter to summer and decreases again to autumn and winter.

Between cloud height and their quantity in all seasons, is

detected distinct communication/connection. With an increase in the cloudiness, decreases their height, especially in winter.

Fog.

Fog is named accumulation in air very small, of indistinguishable ones by eye drops of water in such quantity, with which in air is perceived the dampness, but horizontal appearance becomes less than 1 km.

A large number of different forms of fog it is possible to reduce to three basic forms: radiation ones, arising as a result of the local cooling of air to the night ones watches; advective - a result of the transfer of air with the specific values of the temperature and humidity of some regions in others and mixed, or advective-radiation. The remaining forms of fog are special cases of basic. Are such, for example, different varieties of the radiation fog whose character mainly depends on the degree of cooling and values of air humidity.

Special cases of the advective fogs are evaporation fog, which appear in coasts of large basins as a result of the inflow of cold air from coast, and coast fog, which are the consequance of the transfer of humid air from water surface and its cooling to coast.

The known stimulus of fog formation is the presence of a large number of condensation nuclei in cities; therefore is separated the city fog.

Separate/liberate still orographic, frontal and other fog, which, as urban, always are related to one of the basic forms. With severe frosts and large humidity, appear ice fog, which consist not of drops, but from ice crystals.

At meteorological stations are noted the fog with the horizontal appearance less than 1 km with subdivision to humid continuous ones and the translucent, ice continuous ones and those being translucent, evaporation fog and ground. The type of fog (advective or radiation) is not indicated.

Continuous is named fog in which the observer being located in it, does not see sky.

In the shallow fog the observer, who is located in it, sees the clearances of sky or cloud.

Ground is named the fog, extending in the layer of small height predominantly above low places and above water. The height of ground fog can reach 2 m. Ground fog appear in essence in clear weather

during night and usually they are scattered after sunrise. In "Handbook on a climate of the USSR" are given data on humid and ice fog of continuous ones and being translucent, and also on evaporation fog, if they appear at station or will be carried there by the wind. Ground fog were not considered.

For the characteristic of the distribution of fog, are utilized data on a number of days from fog, their duration and daily variation.

Page 18.

An average number of days with fog for year in the territory in question oscillates from 25-35 on north, in region of Rybinsk reservoir, and in the east where the relief more plains and lower and relative humidity is less, to 40-60 days in southwest and south, on the increased places of a Smolensk-Moscow and Middle-Russian elevations. In large cities and regions where are arrange/located large industrial enterprises, is noted an increase in the number of fog as a result of the large obstruction of the air above them (Fig. 11).

The maximum of a number of days with fog falls on cold period (October-March), lesser anything of fog it is observed from April

through August (Fig. 12).

A number of days with fog, as with other atmospheric phenomena, it is changed from year to year. A great and small number of days with fog on months during many-year period gives the representation of the limits of the oscillations of a number of days in separate years (Table II).

As can be seen from table, in the cold period of year in favorable for formation of fog weather on plains places, can be observed 12-20 days in month with this phenomenon, during elevations (Volovo) - even to 25 days, which composes the large part of all days of month. However, this large number of days with fog in month is observed in all into 4-5o/o of summer/years, i.e., on the average one time into 20-25 summer/years. Most frequently into the cold half of year, are noted 2-4 days in months on even places and 8-12 days during elevations (about 60o/o of summer/years). The absence of fog (0) in winter months is noted approximately into 5-20o/o of summer/years. Predominate the years, when in warm period a monthly number of days with fog composes 0-2 (into 60-70o/o of summer/years).

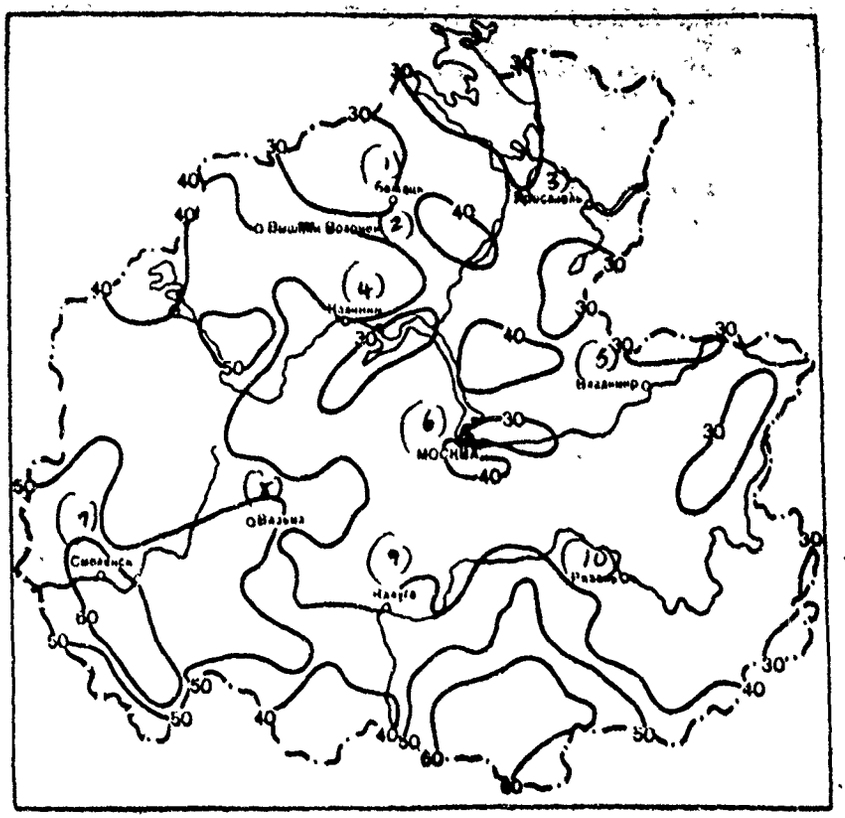


Fig. 11. Average number of days with fog. Year.

Key: (1). Bezhetsk. (2). Vyshniy Volochek. (3). Yaroslavl. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Smolensk. (8). Vyaz'ma. (9). Kaluga. (10). Ryazan.

Page 19.

The important characteristic of fog is their duration. In the

described territory the duration of fog as a number of days with this phenomenon, decreases from south-west to the east. The common/general/total duration of fog for year varies from 120-150 hours in the east to 250-350 hours in southwest and south. In some places of Smolensk-Moscow and central Russian elevations the duration of fog for year reaches 400 hours and more (Fig. 13).

Besides the common/general/total duration of fog, is of interest and the duration of fog into day with fog, which is obtained from the division of total duration into a number of days with fog. The average for year duration of fog during day with fog for the most part of the territory is 4-5 hours, on the elevated places southwest and south, it reaches 6-8 hours.

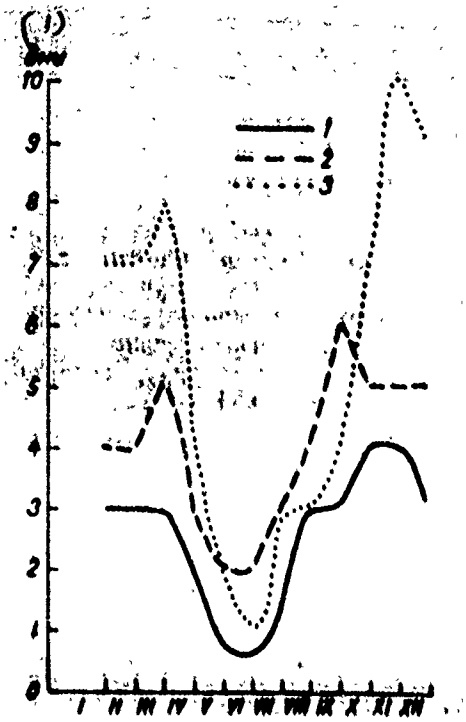


Fig. 12. The annual variation of a number of days with fog. 1 - Moscow, 2 -- Toropets, 3 - Roslavl'.

Key: (1). days.

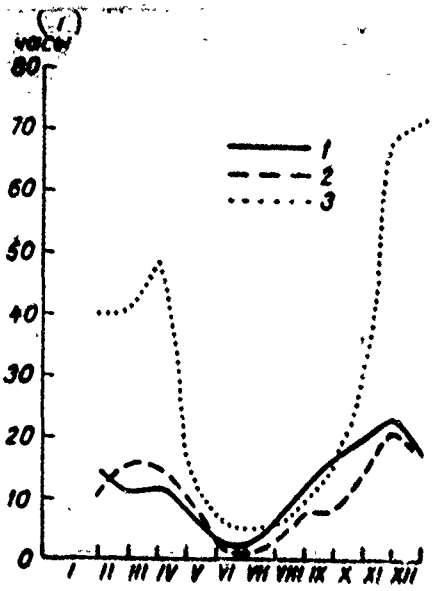


Fig. 13. Annual variation of average duration of fog. 1 - Vyshniy Volochek, 2 - Moscow, 3 - Roslavl'.

Key: (1). hours

Table II. Great and small number of days with fog on months during a 30- year period.

Table II.

Станция (1)	Число дней за месяц (2)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Москва (3)	Наибольшее (4)	11	10	8	8	4	3	5	7	9	9	12	13
	Наименьшее (6)	0	0	1	0	0	0	0	0	0	0	0	0
Рославль (5)	Наибольшее (4)	12	13	14	10	6	6	5	8	11	13	17	21
	Наименьшее (6)	2	0	2	0	0	0	0	0	1	0	0	3
Муром (7)	Наибольшее (4)	11	8	9	12	2	3	4	6	6	9	12	12
	Наименьшее (6)	0	0	0	0	0	0	0	0	0	0	0	0
Волово (8)	Наибольшее (4)	16	16	19	16	9	3	7	7	9	15	17	26
	Наименьшее (6)	3	0	3	1	0	0	0	0	0	1	4	5

Key: (1). Station. (2). Number of days for month. (3). Moscow. (4). Great. (5). Roslavl'. (6). Small. (7). Moore. (8). Volovo.

Page 20.

During year the continuous duration of fog is changed. In cold half-year the fog more are prolonged and more stable. Duration of fog into day with fog in cold time larger partly it reaches 6-12 hours. Are frequently encountered fog with duration of 1-2 days, are sometimes observed fog by the duration more than two days. In summer predominate the fog by the duration less than three hours. Figures 14 gives data on the frequency of the duration of fog.

The duration of fog as a number of days with fog, it depends on the natural conditions of locality. During November in Moscow, apparently, in connection with smaller than after the limits of city, the cooling of air are observed not very prolonged fog (to 12 hours), but on st. Volovo, arrange/located on elevation, the greatest frequency have prolonged fog (more than 48 hours).

Is well expressed the daily variation of the radiation fog - their maximum falls on night and morning hours - time of the greatest cooling of air, and minimum - to daytime. The fog, connected with the passage of fronts, are observed in the most varied time of days.

Snow storms.

Snow storms will do large damage to national economy. Especially much harm they cause to rail transport and motor transport, forming large snowdrifts on railroad lines and on the transiant part of the roads, disrupting the movement of transport. Making appearance worse, snow storms create large difficulties in the operation of air transport. Considerable damage will deposit on snow storm and the agriculture. With the high winds and the unconsolidated structure of snow cover, occurs the redistribution of snow, and in fields are created the nude sections, which sometimes leads to

freezing/winterkilling of winter cultures.

Snow storms usually appear with the passage of front and an increase in the pressure gradients. Most powerful snow storms are connected with the deep cyclones which cause the considerable intensification of the wind.

In the territory of snow storm in question are most frequently connected with the passage of southern and western cyclones and their troughs with the fronts. The most intense of snow storm are noted during the approach/approximation of cyclone to the amplifying anticyclone, since in this case occurs an increase in the pressure gradients, and consequently also the intensification of the wind.

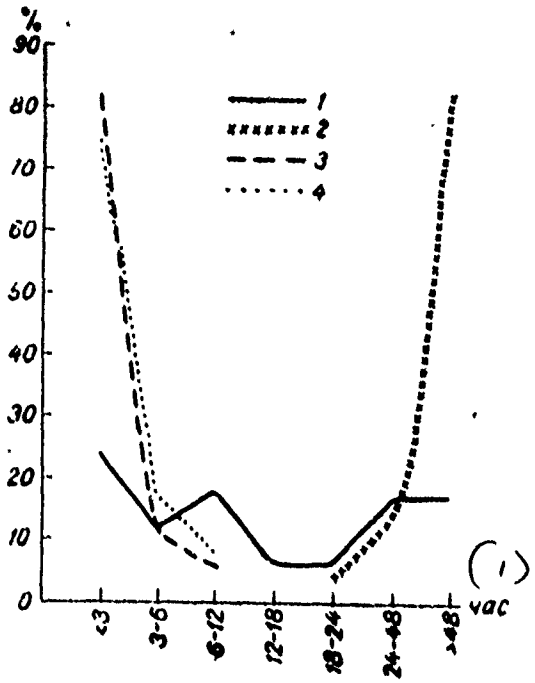


Fig. 14. Frequency (o/o) of the duration of fog in the month of maximum (X1) and of minimum (V1). 1 - Moscow (X1)), 2 - Volovo (X1), 3 - Moscow (V1), 4 - Volovo (V1).

Key: (1). hour.

Page 21.

This is brought, furthermore, to the expansion of the zone of snow storms because of drifting and blowing snow which begin even long before the passage of warm front. Most powerful snow storms appear in

front of warm fronts of the southern cyclones. Sometimes snow storms appear also in rear of cyclone with the passage of cold fronts.

Drifting snow, unlike the common/general/total snow storms, which are accompanied by snowfall with the passage of cyclones and the fronts, more frequently are observed in the region of anticyclone. Ground snow storms usually are observed at the lower temperatures when snow is dry. In these cases of the sufficiently small intensification of the wind, so that would arise ground snow storm. Drifting snow, as common/general/total snow storms, will deposit large harm on national economy.

On snowstorm activity great effect have local conditions, especially the protection of point/item. Depending on the vulnerability or openness of station, the frequency of snow storms considerably is changed. In the shielded from the wind valleys, during the clearings of snow storm they are observed considerably thinner/less frequent than on the discovered places and slopes; therefore even for comparatively low elevations is characteristic an increase in the number of days with snow storms. On capes and the discovered parts of coast of seas where wind velocities are increased, snow storms are more frequently than in the more distant from the high sea bays and the mouths of rivers. In broken ground number distribution of days with snow storms depends on the

vulnerability of point/item, form of relief, exposure of slope, height above sea level. In the shielded from the wind valleys snowstorm activity is considerably attenuate/weakened in comparison with the discovered slopes, on which a number of days with snow storms with an increase in altitude grow/rises. A change in the number of days with snow storms with an increase in altitude of locality on 100 m is dissimilar in different regions. On windward slope of elevations, a number of days with snow storms is considerably more than on leeward slope.

In the territory in question an average number of days with snow storm oscillates from 25 to 45 for winter. Most intense and prolonged snow storms are noted on the discovered and elevated places. In the coastal zone of Rybinsk reservoir and on (Bozhnovskiy), an average number of days with snow storm for winter exceeds 55. Above the reservoir of snow storms, it is still more in connection with an increase in wind velocities above its surface. However, the effect of these high winds is spread only to not wide band, especially to the east from reservoir. In 3 km from (Poshekhon'ye-Bolodarsk) a number of days with snow storm decreases to 40. Snowstorm activity is intensified also on the elevated places of Middle-Russian and Smolensk-Moscow elevations, where an average number of days with snow storm for winter reaches 35-45. In lee to valley, a number of days with snow storm composes 25-30 for winter (Fig. 15).

A great number of days with snow storm on the average is observed during January and February somewhat less - during March and December. During October and April, the snow storms are not yearly (Fig. 16).

In rare years on northeast of territory and during the elevations of snow storm they are noted during May (1938, 1941, 1945, 1946, 1961), while in Vyshniy Volochek was observed snow storm even of 3 VI 1941.

In separate years a number of days with snow storm can considerably differ from many-year average significance. Certain representation of the possible oscillations of a number of days with snow storm can give a great and small number of days with snow storm on the stations, arrange/located in the different parts of the territory, during a 30- year-old period of observations (Table III).

Page 22.

In connection with the large variability of a number of days with snow storm from year to year, is of interest the frequency of different number of days with snow storm in separate years (Fig. 17).

As can be seen from curve/graph, for the different regions of territory, is most probable a number of days with snow storm from 20 to 50 for year. The probability of a number of days less than 20 and more than 50 is small (4-8o/o).

An average number of days with snow drifting the larger part of the territory composes 5-10 days depending on vulnerability by vegetation or structures. On the discovered circumlittoral places of Rybinsk reservoir and during elevations it increases to 11-14 days, but under the shielded conditions it decreases to 3-4 days (Fig. 18).

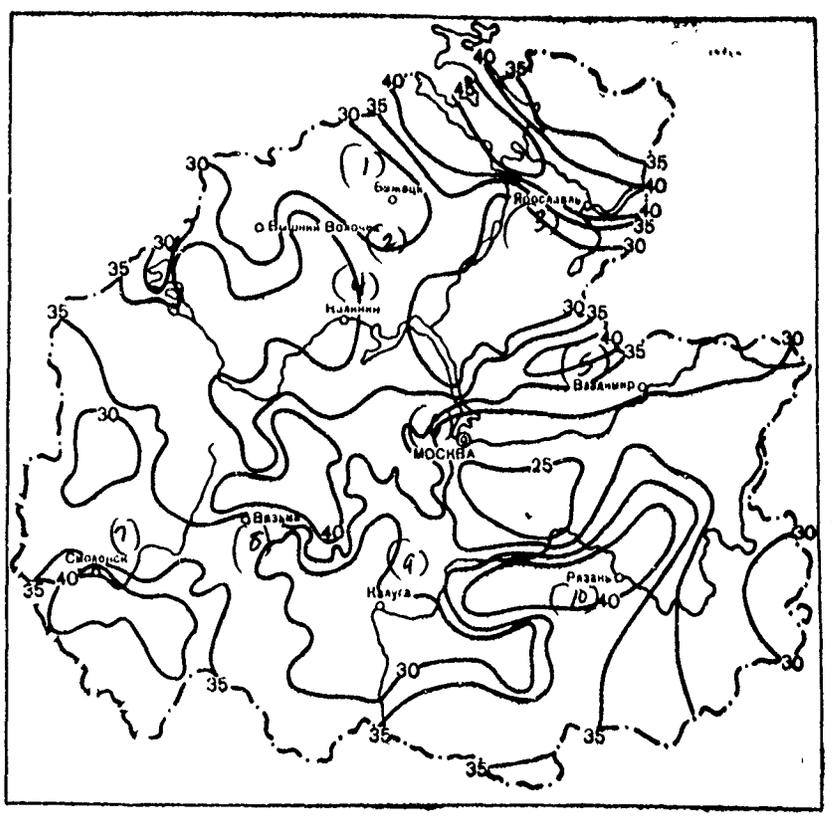


Fig. 15. Average number of days with snow storm, year.

Key: (1). Bezhetsk. (2). Vyshniy Volochek. (3). Yaroslavl. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Smolensk. (8). Vyaz'ma. (9). Kaluga. (10). Ryazan.

Table III. Great and small number of days with snow storm during a 30- year-old period.

Число дней с метелью (1)	X	XI	XII	I	II	III	IV	Сумма за зиму (2)
Тутаев (3)								
Наибольшее (4)	5	15	18	19	20	16	7	74
Наименьшее (5)	0	0	0	1	4	0	0	12
Рославль (6)								
Наибольшее (4)	3	11	14	22	18	14	5	72
Наименьшее (5)	0	0	1	2	0	0	0	10
Ряжск (7)								
Наибольшее (4)	5	15	18	16	20	13	3	55
Наименьшее (5)	0	0	0	1	2	0	0	13

Key: (1). Number of days with snow storm. (2). Sum for winter. (3). Tutayev. (4). Great. (5). Small. (6). Roslavl'. (7). Ryazhsk.

Page 23.

There is great practical interest in the duration of snow storms. Most prolonged snow storms, according to investigations, are noted on leaving to the territory of the southern cyclones in question, and also with the northwestern cyclones when decelerates their rate and is changed trajectory. In this territory the common/general/total duration of snow storms for year amounts on the average to 200-250 hours in the most lowered/reduced lee, 300-350 hours on the elevated discovered places and 475 hours in coast of Rybinsk reservoir. The average duration of snow storm during day with snow storm in entire territory reaches 7.0-8.5 hours. In annual variation the greatest duration of snow storms, just as a number of days with snow storm is observed during January and February (Fig. 19).

Practically important is also direction and wind velocity with snow storms. Under the effect of orography of locality, the direction of the predominant with snow storms wind in separate point/items can somewhat differ from characteristic for region direction. So, in locations with the crossed relief increases the frequency of the winds, directed along valley, in coasts it depends on the direction

coast feature.

Almost in the entire territory of snow storm in question most frequently they are noted with the southeastern and southern winds. In region of the Middle-Russian elevation of the sharply pronounced predominance of any determinate direction of the wind, it is not detected. As an example Fig. 20 gives wind roses with snow storms for separate point/items.

In this territory into 50-80o/o of all cases depending on the vulnerability of snow storm, they are noted at wind velocities 6-9 m/s. In the more discovered places into 15-40o/o of cases, they are at wind velocity 10-13 m/s and into 23-28o/o - at wind velocity 14-17 m/s. At wind velocity more than 17 m/s of snow storm, they are noted rarely that is partly connected with the small frequency of wind velocities more than 15 m/s in the territory being investigated.

Is also small the frequency of snow storms (about 10o/o) at wind velocities less than 6 m/s. As an example Fig. 21 gives the frequency of wind velocities with snow storms for the separate point/items, arrange/located under different physicogeographical conditions.

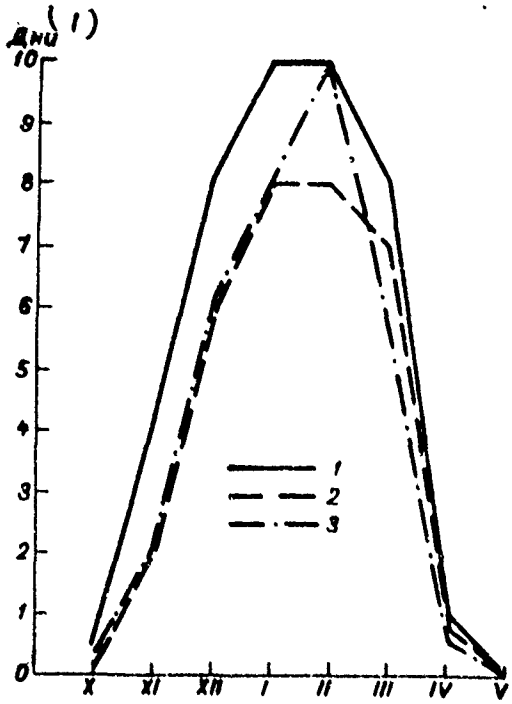


Fig. 16. The annual variation of a number of days with snow storm. 1 - Tutayev, 2 - Toropets, 3 - Byazhsk.

Key: (1). Days.

Page 24.

There is large interest in a question concerning temperatures, which are observed with snow storms. Are especially dangerous snow storms at the low temperatures when snow usually more easily yields to transfer by the wind. With thaws the snow is condensed and loses

its mobility. The frequency of the temperature of air of different gradations at snow storms is changed during winter with a change in the magnitude of temperature. During November with snow storms, predominates the temperature from 0 to -5° (40-55o/o), is great also the frequency of snow storms, also, at temperature from -5 to -10° (25-35o/o in west and 35-45o/o in the east of territory). During December - February, the greatest frequency of snow storms is observed at temperature from 0 to -10°, but most often at a temperature from -5 to -10°. Furthermore, increases a number of cases of snow storms (to 20-35o/o) at temperature from -10 to -15° (Fig. 22). On the average for year, are most probable the snow storms at the temperature of air from -5 to -10° (35-40o/o), a little it is less (to 2-5o/o) at the temperature from 0 to -5° and in 15-20o/o at temperature from -10 to -15°. At the temperature lower than -20° and above 0° snow storm are observed rarely (less than 5o/o).

Thunderstorm.

A number of days with thunderstorm -fundamental characteristic of the spatial and time/temporary distribution of thunderstorm - is little affected in the territory in question: on the average it composes 22-25 days on the relatively even and lowered/reduced places and 26-30 days on the elevated places, by Middle-Russian. Valday and Smolensk-Moscow elevations (Fig. 23).

The effect of Rybinsk reservoir - most significant basin on the territory in question - on the frequency of thunderstorm in coastal zone does not manifest itself (cape Bozhnovskiy).

The majority of thunderstorm is connected with fronts (about 70o/o).. Air-masss thunderstorm more frequently are observed in regions of low pressure.

Thunderstorm are observed predominantly from April through October. Sometimes in separate regions are noted thunderstorm, also, in winter months. As a whole on the territory of thunderstorm in question are possible during entire year (Table IV).

As is evident and Table IV, in the winter months of thunderstorm, they are observed into 5-15o/c of summer/years in any of regions of data of territory. Moreover during 75—year-old period they are noted in all parts of the territory, but region of the action of thunderstorm activity is usually small.

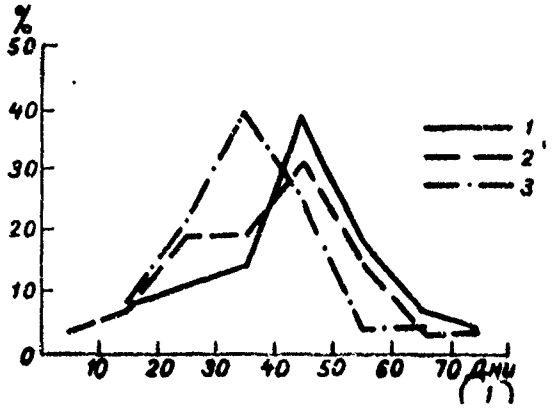


Fig. 17. Frequency (o/o) cf different number of days with snow stcrms. Year. 1 - Tutayev, 2 - Roslavl', 3 - Pavelets.

Key: (1). Days.

Page 25.

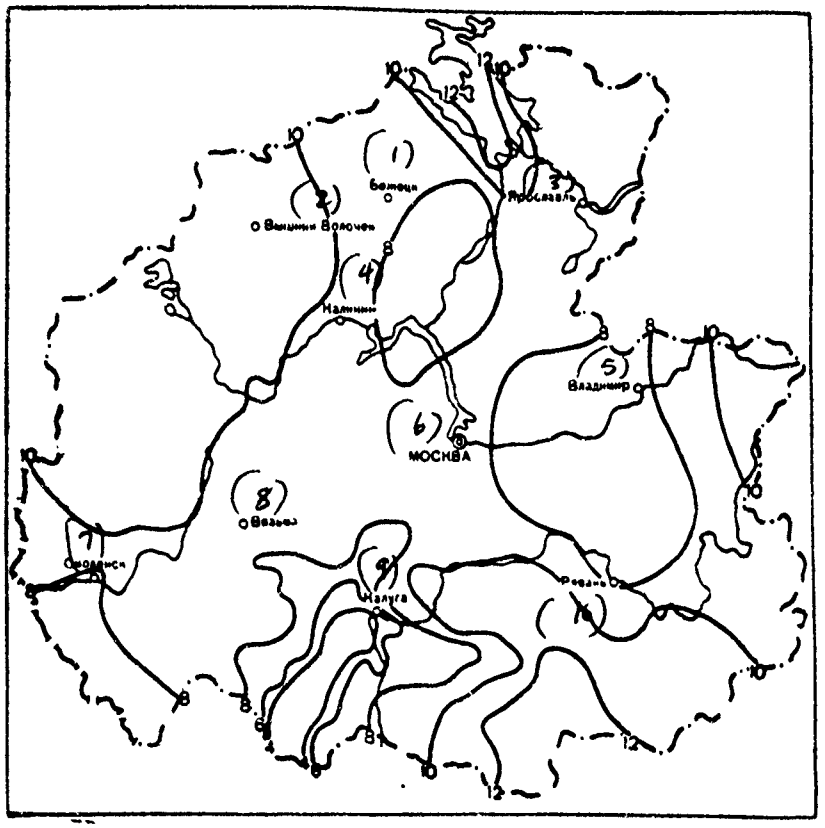


Fig. 18. Average number of days with snow drifting. Winter.

Key: (1). Bezhetsk. (2). Vyshniy Vclochek. (3). Yaroslavl. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Smolensk. (8). Vyaz'ma. (9). Kaluga. (10). Ryazan.

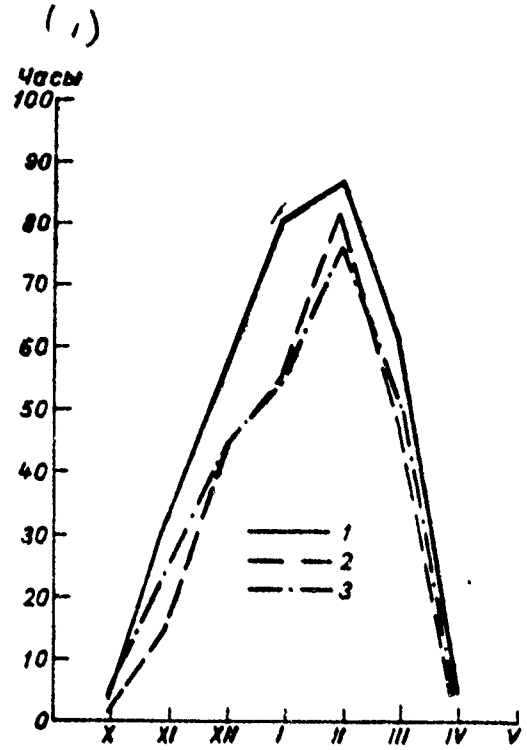


Fig. 19. Annual variation of duration of snow storms. 1 - Tula, 2 - Ryazhsk, 3 - Vyshniy Volochek.

Key: (1). Hours.

Page 26.

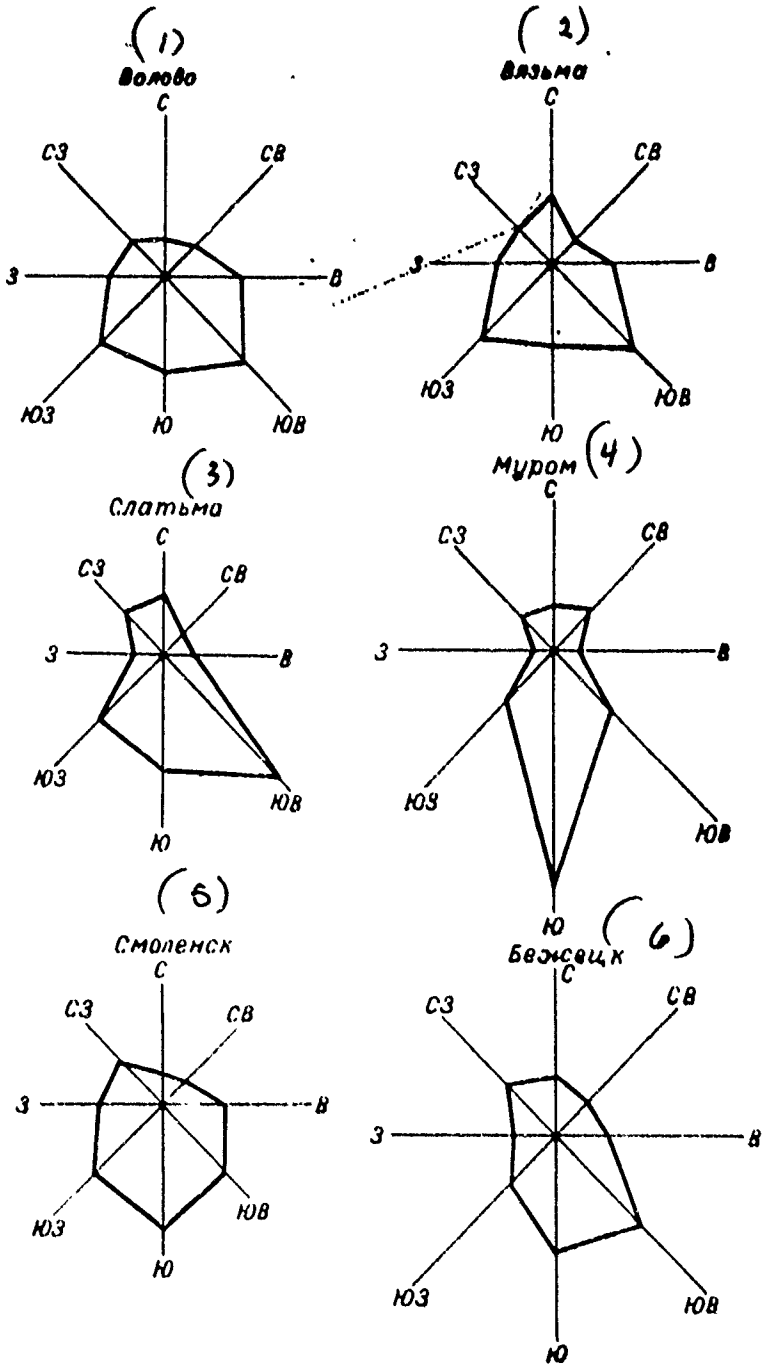


Fig. 20.

Fig. 20. Frequency (o/o) of wind directions with snow storms.

Key: (1). Volovo. (2). Vyaz'ma. (3). Slat'ma. (4). Moore. (5). Smolensk. (6). Bezhetsk.

Page 27.

The maximum of thunderstorm is noted by larger part during July, in some regions the same quantity of thunderstorm is observed during June. The curve of the annual variation of distributing thunderstorm is somewhat asymmetric - a number of thunderstorm in period before maximum (April- June) is somewhat more than in the subsequent months from August through October (Fig. 24). This is explained to the fact that the temperatures of air and, consequently, also the instability of atmosphere are more in spring and into the first half summer/years. In separate years a maximum number of days with thunderstorm is noted during May and during August (into 4-7o/o of summer/years).

A number of days with thunderstorm strongly is changed from year to year depending on the conditions/mode of atmosphere circulation. In 30-45c/c of summer/years, are observed 20-30 days with thunderstorm for year. In years with the more developed thunderstorm activity, a number of days with thunderstorm for year reaches 40-50,

but with the weakened thunderstorm activity it composes less than 10 days (Fig. 25). A maximum number of days with thunderstorm in month usually reaches 5-10 (intc 65-75o/c of summer/years), in some years this number is lesser than 5 or more than 10, but such summer/years a little (Table V).

The important characteristic of thunderstorm is also their duration. The average duration of thunderstorm for year in this territory composes 30-60 hours. The large oscillation/vibrations of the duration of thunderstorm on territory, apparently are connected with different degree of accuracy of recording by their separate meteorological stations.

Average duration of thunderstorm during day with thunderstorm about 1.5-2.5 hours.

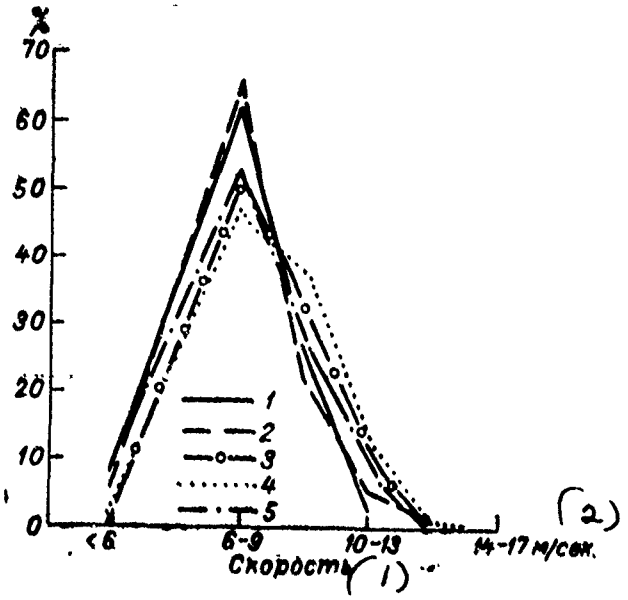


Fig. 21. Frequency (o/o) of different wind velocities with snow storms. 1 - Vyaz'ma, 2 - Yelat'ma, 3 - Volovo, 4 - Smolensk, 5 - Bezhetsk.

Key: (1). Rate. (2) 14-17 m/s.

Table IV. Frequency of summer/years with thunderstorm on months (in o/o from a total number of summer/years of observations).

Пункт наблюдений (1)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Число лет наблюдений (2)
По всей сети пунктов (3)	8	5	15	70	100	100	100	100	100	65	14	8	75
Рославль (4)	0	0	4	49	99	100	100	97	75	11	1	1	72
Москва (5)	0	0	5	37	94	99	100	99	63	8	0	0	73

Key: (1). Observation station. (2). Number of summer/years of observations. (3). On entire grid/network of point/items. (4). Roslavl'. (5). Moscow.

Page 28.

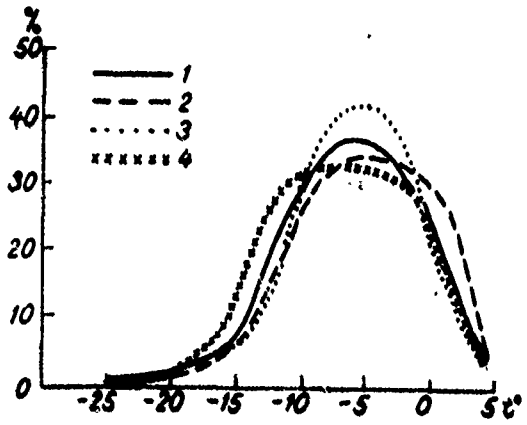


Fig. 22. Frequency (o/o) of temperature of air of different gradations at snow storms. February. 1 - Bezhetsk, 2 - Smolensk, 3 - Vdat'ma, 4 - Volovo.

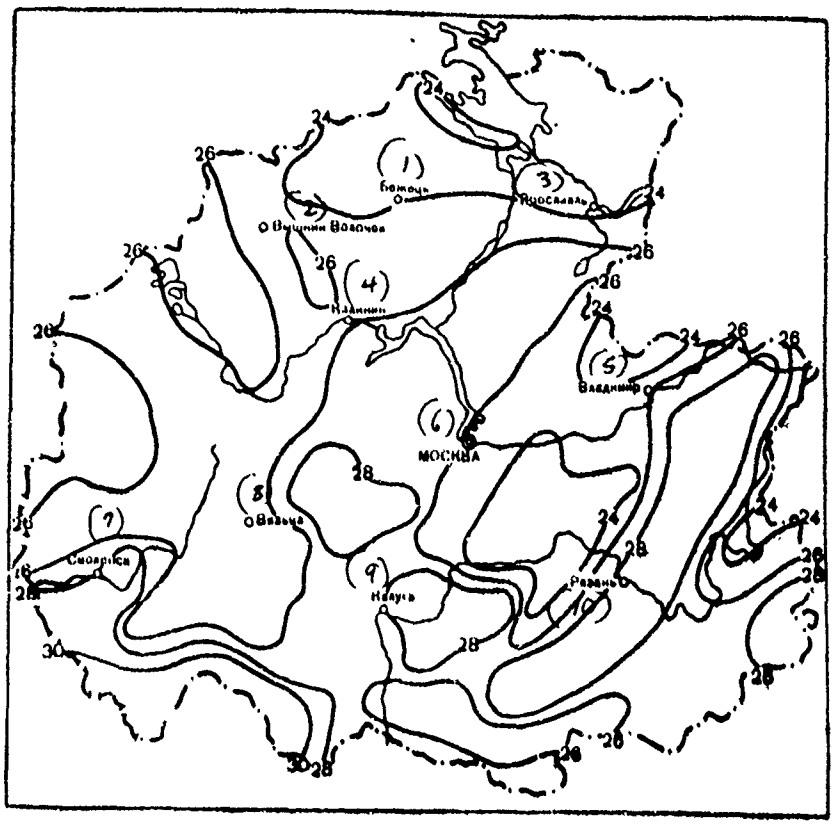


Fig. 23. Average number of days with thunderstorm. Year.

Key: (1). Bezhetsk. (2). Vyshniy Volochek. (3). Yaroslavl. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Smolensk. (8). Vyaz'ma. (9). Kaluga. (10). Ryazan'.

Page 29.

Thunderstorm have well expressed daily variation - the maximum of thunderstorm it is noted in the second half of day, from 12 to 18 hours; the minimum - in the morning, from 6 to 12 hours (Fig. 26).

Thunderstorm bring the large damage to national economy. They are frequently accompanied by showers, squalls, thick and fast, which cause destruction the electric power lines, disturbance/breakdown of the movement of electric trains. Frequently with thunderstorm appear fires, there are human victims.

Deg.

Deg will do large damage to national economy. From hail suffer mainly agricultural plants and gardens especially in the period blooming.

Average and great number of days with hail is the fundamental

characteristic of this phenomenon.

A number of days with hail in the territory in question oscillates on the average from 1.5 to 2.5 days for year. More than two days with hail is observed by places mainly during Valday, Smolensk-Moscow and Middle-Russian elevations (Fig. 27). An increase in the number of cases of hailstorm during elevations can be explained by the intensification of turbulence near the ground of air in the crossed relief and by an increase in the convective cloudiness. Data of Table VI characterize the effect of elevation on hailstorm.

Deg is observed predominantly into the warm halt of year; in locality it drops out larger partly by the spots. Sometimes deg drops out by the bands which reach several kilometers in length and thousand meters in width. Hailstorm is usually accompanied by shower precipitation, thunderstorm, and sometimes also by the squally wind.

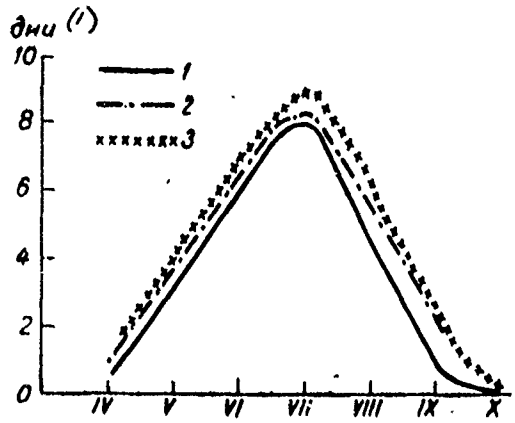


Fig. 24. The annual variation of a number of days with thunderstorm. 1 - Poshekhon'ye-Volodarsk, 2 - Smolensk, 3 - Mikhaylov.

Key: (1). days.

Table V. Frequency (o/o) of different number of days with thunderstorm on months.

(1) Число дней с грозой	IV	V	VI	VII	VIII	IX	X	(1) Число дней с грозой	IV	V	VI	VII	VIII	IX	X
(2) Москва								(3) Смоленск							
0	63	10	1	0	3	37	92	0	53	4	0	0	6	21	92
1—2	33	23	14	0	21	52	8	1—2	45	29	6	8	20	57	8
3—4	4	40	18	14	33	10		3—4	2	29	27	12	27	18	
5—6		20	26	28	26	1		5—6		18	27	37	20	4	
7—8		4	19	23	14			7—8		12	26	12	15		
9—10		3	17	24	1			9—10		6	8	15	8		
11—12			4	9	2			11—12		2	6	12	4		
13—14			1	1				13—14				4			
15—16				1											

Key: (1). Number of days with thunderstorm. (2). Moscow. (3). Smolensk.

Page 30.

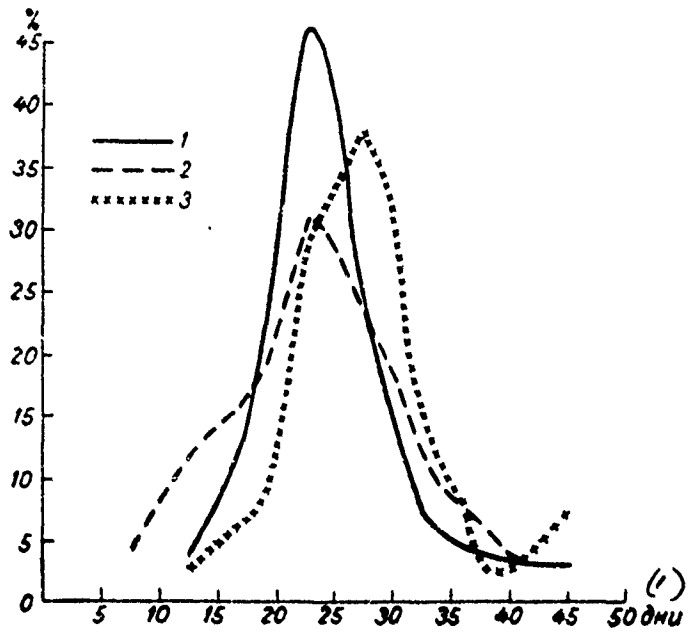


Fig. 25. Frequency (o/o) of different number of days with thunderstorm. Year. 1 - Vyshniy Volochek, 2 - Moscow, 3 - Kaluga.

Key: (1). days.

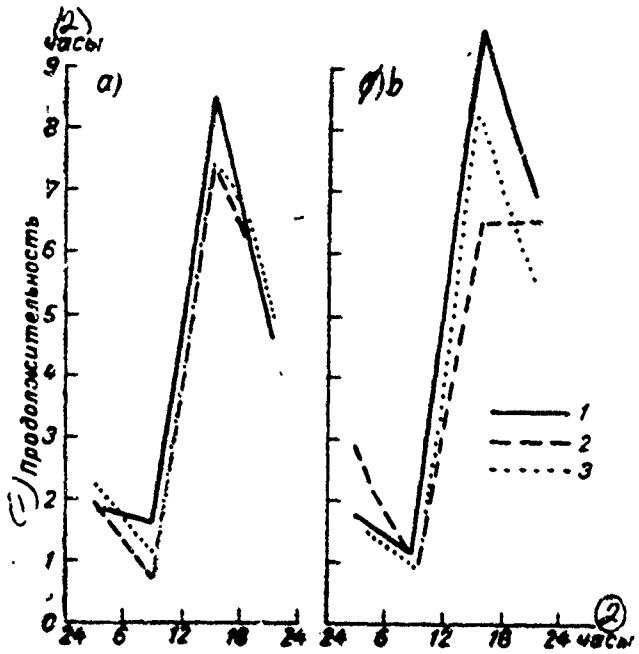


Fig. 26. Duration of thunderstorm into different ones watches of days a) June, b) July, 1 - Belogoye, 2 - Velovo, 3 - Smolensk.

Key: (1). Duration. (2). Hours.

Page 31.

Deg most frequently drops out from April through September, sometimes - during October. The maximum of a number of days with hail is observed at the end of the spring - beginning summer/years - in

the majority of point/items during May, in some - during June (Fig. 28). On May and June, it is approximately 55-65c/o of days with hail from an annual number of days. But even in the months, for which comes the maximum of a number of days with hail, deg is noted not yearly (Table VII).

Table VII shows that even in the months of the maximum of a number of days with hail (May and June) deg is observed into 29-51o/o of summer/years. There are the years when during entire warm period deg it is not observed, but such summer/years it is small (9-21o/o of all summer/years).

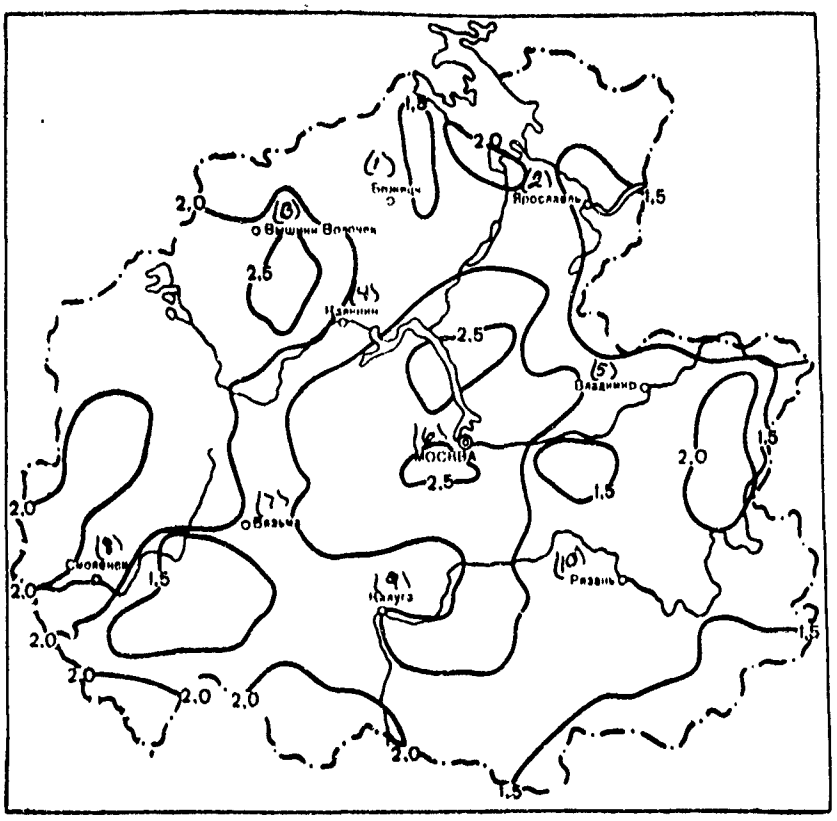


Fig. 27. Average number of days with hail. Year.

Key: (1). Bezhetsk. (2). Yaroslavl. (3). Vyshniy Volochek. (4). Kalinin. (5). Vladimir. (6). Moscow. (7). Vyaz'ma. (8). Smolensk. (9). Kaluga. (10). Ryazan.

Table VI. Average number of days with hail depending on the height of place.

(1) Станция	(2) Высота над уровнем моря, м	(3) Число дней с градом за год	(4) Местоположение
(5) Бологое	178	1.5	(6) Валдайская возвышенность
(7) Старица	179	1.7	(8) То же
(9) Торопец	187	2.1	"
(10) Верхневолжский бейшлот . . .	205	2.2	"
(11) Белый	217	2.3	"
(13) Смоленск . . .	233	2.5	(12) Смоленско-(14) Московская возвышенность

Key: (1). Station. (2). Height above sea level, m. (3). Number of days with hail for year. (4). Location. (5). Bologoya. (6). Valday elevation. (7). Staritsa. (8). The same. (9). Toropets. (10). Upper-Volga Beyshlot. (11). White. (12). Smolensk. (13). Smolensk. (14). Moscow elevation.

Page 32.

A great number of days with hail for month in essence does not exceed 4-5, for the year of 5-6 days; an increase in the number of days to 7-8 for year is observed during elevations.

In separate years a number of days with hail can considerably be distinguished (Table VIII).

Table VIII shows that on the given stations predominate the years, in which are observed 1-2 days with hail (39-53o/o) and sufficient to part are encountered the years, in which are observed 3-4 days with hail (25-32o/o).

Deg most frequently drops out into post-meridian ones watches (approximately into 90o/o of cases).

The duration of the precipitation of hail usually is insignificant. Thus, for instance, in Moscow region the duration of most intense hail is noted to 5 min into 45o/o, from 5 to 20 min. into 20o/o, more than 20 min. into 35o/o of all cases. However, sometimes even brief precipitation of intense hail can cause large loss to agricultural fields and fruit wood/trees. For example, in 1952 on one Moscow region it was thick and fast destroyed by 13000 GA of sowings.

Table VII. Average frequency of summer/years with hail (in o/o from a total number of summer/years of observations).

(1) Станция	(2) Число лет наблюдений	IV	V	VI	VII	VIII	IX	X	(3) Год
(4) Москва	72	8	39	43	42	25	14	3	87
(5) Смоленск . . .	62	20	51	41	29	20	10	3	83
(6) Тула	62	12	47	44	33	14	8	5	91
(7) Елатьма	68	6	29	32	27	15	10	7	79

Key: (1). Station. (2). Number of summer/years observations. (3). Year. (4). Moscow. (5). Smolensk. (6). Tula. (7). Slat'ma.

Table VIII. Frequency (o/o) of different number of days with hail during the warm period in separate years.

(1) Станция	(2) Число дней с градом за год				
	0	1—2	3—4	5—6	7—8
(3) Москва	13	51	32	3	1
(4) Смоленск . . .	17	39	27	15	2
(5) Тула	9	53	25	13	

Key: (1). Station. (2). Number of days with hail for year. (3). Moscow. (4). Smolensk. (5). Tula.

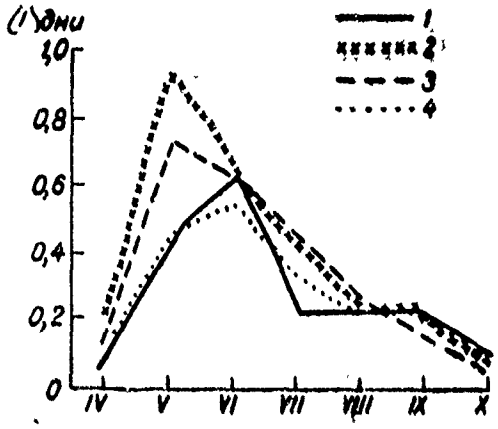


Fig. 28. Annual variation of number of days with hail. 1 - Poshekhon'ye-Volodarsk; 2 - Smolensk; 3 - Tula; 4 - Slat'ma.

Key: (1). days.

Page 83.

EXPLANATIONS TO TABLES.

Section 1. Cloudiness.

The degree of covering of sky with clouds is estimated by observers visually (by rule of thumb) according to the ten-ball

scale. By zero is designated the full/total/complete absence of clouds, cloudiness 1, 2 balls and so forth means that clouds covered 1, 2 and so forth of the tenth of the part of the sky. The cloudiness of 10 balls indicates that whole sky is overcast.

In all tables different characteristics of cloudiness are represent/presented separately for lower and common/general/total cloudiness. The lower cloudiness is included only the low clouds with upper altitude limit of approximately 2000 m and lower - the earth's surface. Clouds of vertical development (cumulonimbus) with basis/base at the level of lower cloudiness are independent of the level of their apex/vertexes referred to lower cloudiness. The common/general/total cloudiness is included all clouds, observed simultaneously, regardless of the fact, to which tier they are related.

For all characteristics of cloudiness as basic, is used the period of 1936-1960. The selection of this period it is caused by transition beginning with 1936 from three-urgent ones (7, 13 and 21 hours) to four-urgent (1, 7, 13 and 19 hours) observations. The exchange of the time periods of observations causes the heterogeneity of series up to 1936 and after it (since cloudiness especially in summer months substantially is changed in the course twenty-four hours). Laborious work on the elimination of heterogeneity in view of

the insufficient accuracy of visual observations above cloudiness does not introduce serious specifications, and therefore it is not advisable.

Usually visual observations depend to a considerable extent on the subjective evaluation of the observers, and frequently the evaluation of cloudiness is made not according to the ten-ball scale, but it is more roughly. As it showed practice, observers they frequently note even or odd degrees of cloudiness, i.e., they actually observe according to the five-point scale. Therefore for the purpose of use, data of a larger number of stations all the marks of cloudiness are united into three group: clear sky condition (0-2 balls), semi-clear (3-7 balls) and cloudy (8-10 balls). Association into one group of two adjacent balls 1 and 2, and also 8 and 9 somewhat smooths an inaccuracy in the observations. With completely clear or cloudy sky the evaluation of cloudiness becomes most precise and therefore the connection of the mark of 0 balls to the group of 1-2 balls and marks of 10 balls to the group of 8-9 balls does not decrease the accuracy of these groups. The association of cloudiness into one group of 3-7 balls is admissible, since the clouds of this group are observed usually thinner/less frequent than the clouds of other extreme groups of 0-2 and 8-10 balls. Its division into smaller groups is not advisable in view of the insufficient accuracy of the evaluation of cloudiness.

Page 34.

The fundamental characteristic of cloudiness is the frequency of different sky condition in the following gradations: it is clear (0-2 balls), semi-clear (3-7 balls) is cloudy (8-10 balls) (Table 1, 2 and 3). Average value is not a sufficient climatic characteristic of cloudiness, since the distribution curve of cloudiness strongly differs from the distribution curves of other weather constituents in the fact that the greatest frequencies fall on the extremes of the marks of cloudiness, but smallest - at the values, close to average value. Therefore cloud amount of middle level differs significantly from that predominating. However, for a series of research and practical target/purposes (for example, for the calculation of the magnitudes of solar radiation) is necessary the information about the magnitudes of cloud amount of middle level. This information is given in Table 5-7.

Table 4 gives data on a number of clear and cloudy days.

Clear is considered such day of which the sum of the marks of cloudiness in four time period of observations does not exceed 7 (from 0 to 7 balls inclusively), but cloudy - such day of which the

sum of the marks of cloudiness in four time period of observations composes not less than 33.

This characteristic of cloudiness makes it possible to judge to a certain extent the stability (in the course twenty-four hours) of one or the other sky condition. Table 8 gives data, that characterize the frequency of the various forms of the cloudiness, which is of interest for aviation. Table 9 gives data, that characterize the frequency of different gradations of lower cloudiness with this gradation of common/general/total.

The separate characteristics of cloudiness, such, as cloud amount of middle level (table 6 and 7) and the frequency of its different gradations (table 2 and 3), are detailed for the various time periods of observations (1, 7, 13 and 19 hours). This gives the representation of the daily variation of the characteristics of cloudiness indicated.

At many stations in recent years, are organized instrument/tool observations above the height of lower cloud base, which makes it possible to refine the visual estimate of cloudiness.

Table 1. Frequency of clear (0-2 balls), semi-clear (3-7 balls) and cloudy (8-10 balls) sky condition on common/general/total and

lower cloudiness (o/o). In table is given the frequency of clear, semi-clear and cloudy sky condition on common/general/total and lower cloudiness, expressed in percentages from a total number of observations for month.

The frequency of the coating of sky with clouds is given both taking into account the clouds of all forms, without subdivision on tiers (common/general/total cloudiness) and for the clouds only of lower tier (lower cloudiness).

Data this table are acquired by direct calculation for the available at stations years of observations, but no less than in 15-20 summer/years and within the limits of the period of 1936-1960. The series of observations less than 15 summer/years are given to longer series by the method of differences.

It is possible to count that 20-25- year-old series of observations during the calculation of the frequency of cloudiness give sufficiently stable average.

This confirm data, calculated from a 70- year-old and 25-year-old series, that are distinguished insignificantly (Table IX).

At the same time the average during the small periods of time,

for example for tenth anniversaries, can considerably differ from each other, which indicates the need of bringing short series (Table X).

Table 2. Frequency of clear (0-2), semi-clear (3-7) and cloudy (8-10) sky condition on common/general/total cloudiness into different ones the watches of days (o/o).

Page 35.

Table 3. Frequency of clear (0-2), semi-clear (3-7) and cloudy (8-10) sky condition on lower cloudiness into different ones the watches of days (o/o). Data of Table 2 and 3, in which is given the frequency of clear, semi-clear and cloudy sky condition into different ones the watches of days, give the representation of the daily variation of common/general/total and lower cloudiness.

In the tables are included the stations, which have series of observations not less than 20 summer/years within the limits of the period of 1936-1960.

The daily variation both of common/general/total and lower cloudiness is noted during entire year, but in cold period it is expressed less sharply; in warm period sharply are separate/liberated

the maximum and the minimum in daily variation, the frequency of cloudy and especially clear sky condition.

This daily variation is caused by the course of the process of cloud formation. In winter, when stratus subinversion clouds in the daytime of days are destroyed, but cumulus clouds are not still developed, the greatest frequency of cloudy sky both on of overall and on the lower cloudiness investigated territory it is noted into morning ones watches, and only sometimes on common/general/total cloudiness it can be preserved by day.

The smallest frequency of cloudy sky condition on common/general/total cloudiness is noted into evening ones, and on lower cloudiness - into the daytime ones watches.

In summer in connection with the intense development of cumulus cloudiness, the greatest frequency of cloudy sky condition on common/general/total and lower cloudiness is noted by d daytime watches, and are smallest on common/general/total cloudiness - into the night ones watches, on lower - into evening ones, which is connected with the spreading of cumulus cloudiness into these watches.

Table IX. Frequency (o/c) of clear (0-2 balls) and cloudy (8-10 balls) sky condition into 7 and 13 hours for separate months, calculated from series of different duration (common/general/total cloudiness). Moscow.

(1) Период	I				IV				VII				X			
	7		13		7		13		7		13		7		13	
	(2) баллы															
	0—2	8—10	0—2	8—10	0—2	8—10	0—2	8—10	0—2	8—10	0—2	8—10	0—2	8—10	0—2	8—10
1891—1960	14	82	11	81	25	62	17	63	32	50	9	55	12	79	11	76
1936—1960	14	82	12	81	26	63	15	66	32	50	9	55	11	82	8	79

Key: (1). Period. (2). balls.

Table X. Frequency of clear (0-2 balls) and cloudy (8-10 balls) sky condition (o/o) for different tenth anniversaries (common/general/total cloudiness). Moscow.

(1) Десятилетие	I				IV				VII				X			
	0—2	Δ	8—10	Δ	0—2	Δ	8—10	Δ	0—2	Δ	8—10	Δ	0—2	Δ	8—10	Δ
1936—45	20		77		23		65		28		50		16		74	
1946—55	14	6	79	2	29	6	54	11	25	3	46	4	15	1	76	2
1956—65	13	1	82	3	28	1	59	5	29	4	49	3	16	1	75	1

Note. Δ indicates the difference between adjacent tenth anniversaries.

Key: (1). Decade.

Page 36.

The daily variation of the frequency of clear sky condition is opposite to the course of cloudy, namely: the greatest frequency in winter months on common/general/total cloudiness is noted into evening ones, and on lower - into evening ones and sometimes into morning ones watches.

In summer with the sharply pronounced daily variation the greatest frequency of clear sky condition on common/general/total and on lower cloudiness is noted into the night ones watches and the southeast of territory most clearly it is only on the morning.

The smallest frequency of clear sky condition both on common/general/total and on lower cloudiness falls on the daytime ones watches.

The daily amplitude of the frequency of cloudy sky condition varies in winter from 3 from 15o/o both on common/general/total and on lower cloudiness, but in summer from 15 to 25o/o on common/general/total and from 8 to 16o/o on lower cloudiness. The

daily amplitude of the frequency of clear sky condition composes on common/general/total cloudiness by 6-15o/o winter and 25-40o/o in summer; on lower cloudiness 5-10o/o in winter even 35-45o/o in summer (Table XI).

Table 4. Number of clear and cloudy days on common/general/total and lower cloudiness. Data this table are acquired by way or the direct averaging of series of observations not less than for 20-25 summer/years (within the limits of the period of 1936-1960), or bringing of shorter series to a 25- year-old period by the method of differences.

Data, placed in Table 4, serve as supplement to Table 1 and they make it possible to judge the stability of clear and cloudy weather in the course twenty-four hours.

Table XI. The daily amplitude of the frequency of clear (0-2 balls) and cloudy (8-10 balls) sky on common/general/total and lower cloudiness (o/o).

(1) Облачность	(2) Баллы	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
						(3) Данилов							
(4) Общая	0—2	6	11	13	21	26	26	26	34	25	12	11	6
	8—10	6	9	12	16	19	16	15	24	21	10	9	5
(5) Нижняя	0—2	6	8	5	18	32	40	43	39	28	13	4	6
	8—10	6	9	8	10	17	16	19	16	14	9	5	6
						(6) Торопец							
(4) Общая	0—2	6	9	19	21	27	25	24	32	24	14	6	5
	8—10	6	12	17	14	22	16	19	25	25	14	5	4
(5) Нижняя	0—2	9	9	9	18	28	41	38	39	28	12	5	2
	8—10	9	10	9	6	13	12	15	15	11	10	4	3
						(7) Владимир							
(4) Общая	0—2	13	16	12	27	30	31	33	42	30	16	11	7
	8—10	7	13	10	16	18	18	19	21	19	12	5	3
(5) Нижняя	0—2	9	14	10	17	30	43	44	40	25	20	3	5
	8—10	10	16	14	6	10	9	13	9	7	6	5	4
						(8) Чернь и Скуратово							
(4) Общая	0—2	8	13	12	26	35	36	41	41	29	20	6	7
	8—10	9	13	11	18	21	18	19	23	18	14	7	4
(5) Нижняя	0—2	6	12	10	18	31	35	39	35	19	15	5	4
	8—10	7	12	10	5	14	9	12	13	11	9	4	4

Key: (1). Cloudiness. (2). Balls. (3). Danilov. (4). Common/general/total. (5). Lower. (6). Torcpets. (7). Vladimir. (8). Elack and Skuratov.

The representation of the stability of clear or cloudy weather for common/general/total and analogously for lower cloudiness can be obtained with the aid of the relationship/ratio

$$\frac{\Pi_{\text{я}}}{P_{(0\div2)}}=k_{\text{я}};\quad \frac{\Pi_{\text{п}}}{P_{(8-10)}}=k_{\text{п}},$$

where $k_{\text{я}}$ and $k_{\text{п}}$ - a stability factor of clear or cloudy weather (percentages), $P_{(0-2)}$ and $P_{(8-10)}$ - a frequency of clear or cloudy sky, $\Pi_{\text{я}}$ and $\Pi_{\text{п}}$ - a number of clear and cloudy days.

A number of clear and cloudy days is taken in percentages and number of all days in month, since frequency is also expressed in percent from a number of observations.

Data on the stability of clear and cloudy weather on st. Moscow, agr. academy, calculated by method indicated higher, are given in Table XII.

Table XII shows that in Moscow upon consideration of the clouds of all tiers (common/general/total cloudiness) during entire year the stability of the cloudy sky is greater than clear one. In this case, in the cold period of year (from October through March) predominate continuous, dense low clouds, and into warm - clouds of average and upper tiers, usually with the discontinuity/interruptions, through which frequently x-rays the sun. But if is taken into the attention of the cloud only of lower tier (lower cloudiness), then in cold

period cloudy weather more stable than the clear, but into warm, on the contrary, clear weather is more stable than the cloudy.

Number of clear days on common/general/total and lower cloudiness small in the cold period of year and great into warm.

A number of cloudy days has reverse annual variation - most of all of cloudy days is observed from November to January and lesser anything from June through August.

Table 5. Average monthly and annual common/general/total and lower cloudiness (balls). Data of Table 5 are acquired via the direct averaging of series of observations by the duration of 20-25 summer/years within the limits of the period of 1936-1960. Shorter series of observations were led to full/total/complete 25- year-old period.

The average values of common/general/total and lower cloudiness as the average values of other cell/elements, are the convenient comparative characteristic, which reflects the common/general/total laws governing the distribution of cloudiness in space and time. It is utilized mainly during all possible calculations.

In annual variation greatest cloud amount of middle level as is

common/general/total, so also lower, it is noted on north and in the west of territory during November - December; in the south and the east, is clearly expressed December maximum.

Table XII. Stability factor of clear and cloudy weather with respect to common/general/total and lower cloudiness (o/o). Moscow.

(1) Облачность	(2) Коэффициент	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
(3) Общая	$k_я$	24	34	36	38	43	33	31	32	42	26	38	35
	$k_п$	79	78	69	64	60	54	50	55	65	78	86	89
(4) Нижняя	$k_я$	39	46	53	54	54	55	59	54	50	37	44	48
	$k_п$	68	52	58	43	47	34	40	42	50	66	77	81

Key: (1). Cloudiness. (2). Coefficient. (3). Common/general/total. (4). Lower.

Page 38.

The greatest values of average common/general/total cloudiness oscillate from 8.2 balls not the east to 8.9 balls in west. The limits of the oscillations of the greatest values of lower cloud amount of middle level compose 7.3-7.8 balls. The smallest cloudiness (from 5.2 balls in the east to 6.5 balls in west on common/general/total cloudiness and from 3.2 to 4.4 balls on lower)as the frequency of cloudy sky condition, is observed during May - August.

Table 6. Average monthly and annual common/general/total

cloudiness into different ones the watches of days (balls).

Table 7. Average monthly and annual lower cloudiness into different ones the watches of days (balls). Data of tables give the representation of the daily variation of average common/general/total and lower cloudiness.

Cloud amount of middle level into different ones the watches of days is obtained by the direct calculation of series of observations on the selective network of the stations, which have series not less than 20-25 summer/years within the limits of the period of 1936-1960.

In cold period the daily variation of cloud amount of middle level as the frequency of the cloudiness of different gradations, is expressed weakly. However, it is possible to note a regular increase of the cloudiness within morning and daytime time periods, which is connected with the greatest cooling of the lower layers of air into these watches, and its decrease into evening ones watches.

Is clearly expressed the daily variation of common/general/total and lower cloudiness in the warm period of year, from April through August: lowest values of cloudiness are observed within night time period (from 4 balls in the east to 5.5 balls in west), greatest - 13 hours (6.5-7.5 balls on common/general/total cloudiness). The same

daily variation and lower cloudiness, its only average value to 1.5-2.5 balls is smaller than the common/general/total.

Table 8. Frequency of the basic forms of cloudiness (o/o). Table depicts the frequency of the basic forms of cloudiness in percentages in a number of observations of lower tier (Cu, Cb, Sc, Ns, St, Frnb) and of average tier (Ac, As), when lower cloudiness was not continuous and it was possible to observe middle clouds, and the cloud forms of upper tier (Ci, Cc, CS), when the cloudiness of the lower and average of tiers was not continuous and it made it possible to observe high clouds.

However, the frequency of all cloud forms is not equal to 100o/o, since are possible the cases of the completely clear air or presence of two or three cloud forms simultaneously.

Treatment data for Table 8 is derivative in a mechanized manner by the Novosibirsk branch of NIIAK. As initial material for the selection of frequencies served observations at standard time during the period of 1936-1960. Average are calculated of the series of observations not less than 17-20 summer/years. In connection with the fact that the duration of the used period is insufficient for calculating the frequency, in some months data on separate gradations in Table 8 and 8a are absent.

Cloud forms as their quantity, are characterized by large variability in time and space. Besides observations above cloudiness are conducted visually; therefore are possible errors both subjective character (qualification, the attention, the thoroughness and observer's other characteristics) and objective (degree of the openness of horizon/level, the location of clouds during the firmament, their illumination and so forth). However, on the average is reveal/detected the completely specific picture of the frequency of cloud geni in annual variation and on territory (Fig. 9 and 10).

Table 8a. Frequency of the basic forms of cloudiness into different ones the watches of days (o/o). As initial material for Table 8a served the same data, as for Table 8, their treatment is also produced in a mechanized manner.

Page 39.

The frequency of the forms of cloudiness into different ones the watches of days is given on data of the selective network of the stations, which have 20-25- year-old series of observations and which evenly elucidate entire territory in question.

Observational data into different ones the watches of days give the representation of the daily variation of cloudiness which for the clouds of many forms is sufficiently well expressed.

Is especially clearly expressed daily variation for the clouds of cumulus forms in the warm period of year (Fig. 29).

Table 9. Frequency of different gradations of lower cloudiness with the specific gradations of common/general/total cloudiness. Data of the tables are processed in a mechanized manner on the same stations and during the same period, as Table 8 and 8a.

Use of machines made possible to reveal/detect/expose all possible combinations of the common/general/total and lower cloudiness of different gradations.

In practice it is important to know, as frequently with semi-clear in cloudy sky condition on common/general/total cloudiness is observed the frequency of one or the other gradation of lower cloudiness.

With cloudy sky on common/general/total cloudiness, is most frequently cloudy the sky, also, on lower cloudiness and frequently semi-clear sky on lower. Intermediate between them frequency it

occupies the combinations of 8-10 balls on common/general/total cloudiness and 0-2 balls on lower cloudiness (Fig. 30).

With semi-clear sky on common/general/total cloudiness in the warm period of year, more frequently is noted semi-clear sky, also, on lower cloudiness. In cold period semi-clear sky both on common/general/total and on lower cloudiness is observed rarely.

Section 2. Fog.

For the characteristic of fog in handbook, are given average and great number of days with fog, their duration and the frequency of different number of days with fog in separate years.

The information about fog widely is utilized in aviation, during the planning of work of ground-based and urban transport, etc.

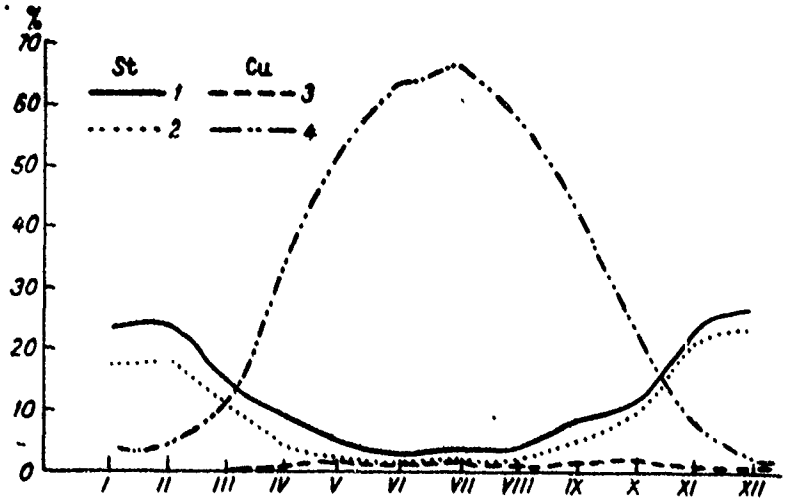


Fig. 29. Frequency (o/o) of the separate forms of cloudiness into different ones the watches of days. Moscow. 1, 3-7 hours, 2, 4-13 hour.

Page 40.

For these tables are used the observations of meteorological stations and posts during the period of 1936-1965. The selection of this period is caused by transition to observations at standard time beginning with 1936. The introduction of night time period it contributed to the more careful recording of atmospheric phenomena. In 1935 was refined the procedure of the definition/determination of fog taking into account the distance of horizontal visibility. With

the appearance less than 1 km observer, notes fog.

Table 1. Average number of days with fog.

Table 1a. Great number of days with fog. Tables give data for continuous, translucent, humid and ice fog.

Average values for the majority of stations are obtained by direct calculation of the series of observations not less than 15 summer/years within the limits of the period of 1936-1965. Shorter series of observations are given to full wave with the aid of the graph/diagrams of correlation dependence. When during the used period in any month fog were not observed, in Table 1 in the appropriate graph data are absent.

As a result of the fact that observation above fog, they are conducted of visually, data separate stations are always comparable between themselves. Thus, for instance, at the stations, which serve aviation or water transport, is noted somewhat larger quantity of fog. This is explained by more careful observations. Such point/items include Smolensk, yaroslavl, is Rybinsk, etc.

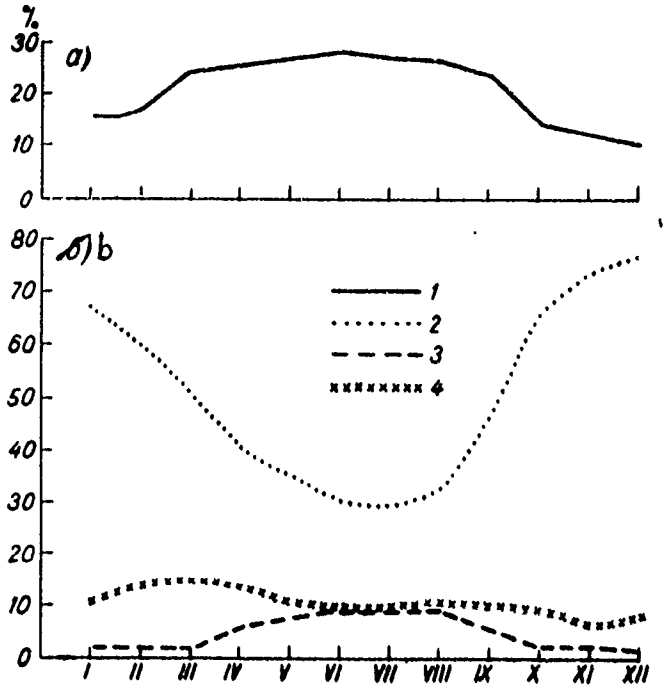


Fig. 30. Frequency (o/o) of different combinations of common/general/total and lower cloudiness. Moscow. a) with clear air on common/general/total cloudiness, b) with cloudy sky on common/general/total cloudiness; 1 - 0-2/0-2, 2 - 8-10/8-10, 3 - 8-10/3-7, 4 - 8-10/0-2.

Page 41.

A number of days with fog for last/latter 30th anniversary (1936-1965) generally somewhat increased in comparison with the preceding/previous period (1891-1935), apparently, as a result of

more careful and more continuous observations in recent years.

In this territory a number of days with fog increases in the direction from the east where the locality is more equal and lower, to west and south. Is somewhat more a number of days with fog during elevations, especially on Middle-Russian (Volovo, Chern', etc.). This should be considered during the evaluation of a quantity of fog in the point/items where the observations do not produce.

A great number of days with fog (Table 1a) gives for the stations, which have series of observations not less than 20-25 summer/years, and gives the representation both of the maximum number of days which was noted during the available period of observations and about the great deviation from many-year average.

As a result of the fact that extreme (greatest) magnitudes are encountered comparatively rarely, the great number of days with fog, selected from the period of observations in 20-30 summer/years, during the prolongation of series of observations can change.

Table 2. Frequency of different number of days with fog on months (o/o).

Table 2a. Frequency of different number of days with fog for

year (o/o). Data of tables are the frequency of different number of days with fog in separate years, expressed in percentages.

The frequency of different number of days with fog is given on stations with series of observations not less than 20-25 summer/years[1].

FOOTNOTE [1]. The frequency of each gradation in the table is expressed in percentages from a number of summer/years of observations for given month or year. In connection with the fact that the duration of the used period is insufficient for calculating the frequency, on separate gradations data are absent. ENDFOOTNOTE.

Data these tables make it possible to evaluate the limits of the oscillations of a number of days with fog on territory. The greatest frequency has a number of days, close to average, smallest - extreme magnitudes (Table 2 and 2a). The frequency of different number of days with fog supplement information of Table 1.

Table 3. Average duration of fog (hours).

Table 3a. Maximum duration of fog (hours).

Table 3b. Duration of fog in different time of days (watches).

The average duration of fog (Table 3). is obtained by the calculation of observational data of series of different duration (not less than 15-18 summer/years) within the limits of the period of 1936-1964.

As initial ones served the materials of the detailed recording of the duration of fog in hours and minutes, rounded during treatment to the fourth of hour.

In table, besides common/general/total duration, is given also the duration of fog during day with fog which is obtained from the division of total duration into a number of days with fog during the corresponding period (cold, warm and year).

As a result of the fact that extreme magnitudes are encountered rarely, and series of observations on duration are insufficiently are long, the maximum duration of fog (Table 3a) one should consider tentative.

In Table 3b the same initial materials are detailed for the individual parts of the days (18-24, 24-6, 6-12 and 12-18 hours). Gradation 18-24 included the observational data from 18.1 to 24.0

hours, to gradation 24-6 from 24.1 to 6.0 hours and so forth.

Page 42.

Data of Table 3b give the representation of the daily variation of fog. The greatest duration is noted into before morning and morning watches, smallest - into post-meridian and evening ones.

Table 4. Frequency of different duration of fog on months (o/o). Data this table are given on data of the selective network of the stations, which have series of observations not less than 20-25 summer/years within the limits of the period of 1936-1964.

The frequency of different duration of fog gives the representation of its possible oscillations in separate years.

In regions with high duration, predominate prolonged multihour fog.

Section 3. Snow storms.

During the climatological treatment of snow storms as basic, it is accepted period from 1936 through 1964, since beginning with 1936

in connection with transition from three-urgent ones to observations at standard time and the introduction of the night time period of snow storm they began to be recorded more systematic (presence of the phenomenon of steel to record/write with an accuracy to one fourth of hour). The existing separation of snow storms into forms (with isolation/liberation drifting snow) is accepted only in the thirties.

Subsequently the definition/determination of different forms of snow storms (snowstorm, blowing snow, common/general/total blizzard) repeatedly was more precisely formulated. This to a certain extent could unfavorably pronounce on quality and uniformity of series of observations above different forms of snow storms. In view of the fact that the separation of snow storms into forms was not always sufficient to clear ones and observers hindered in the definition/determination of the forms of snow storms, during the climatological treatment of snow storms all forms their, except drifting snow, they were united into one group, but in another group were isolated only drifting snow.

Blizzard from clouds or without precipitation of snow (blowing snow) is accompanied by the transfer of snow downwind almost in horizontal direction. With blowing snow the snow is risen from the earth/ground higher than the level of the eye of man, sometimes with this snow storm it is possible to see sky. With drifting snow occurs

the transfer of snow by the wind only on the earth's surface, lower than the level of the eye of man.

In present section is placed the information about an average and greatest number of days with snow storm on months and for year (Table 1 and 1a), an average number of days with snow drifts on months and for year (Table 2), the duration of snow storms (Table 3), and also about the frequency of different directions and wind velocity and temperature of air at snow storms during the multiflight period of observations (Table 4, 5 and 6). In the tables indicated is given the composite characteristic of the snow storms, which characterize weather conditions, which accompany snow storm. In Table 7 is given the frequency of different number of days with snow storm for year. In connection with the fact that the observations after snow storms since 1936 became more full/total/complete and more careful, in the territory in question an average number of days with snow storm during the period of 1936-1964 is everywhere more than during period accepted previously of 1891-1935. In the majority of the cases, the difference comprises on the average of 3-8 days for year, and at separate stations it reaches 14-18 days.

Table 1. Average number of days with snow storm.

Table 1a. Great number of days with snow storm. In Table 1,

represented average number of days with snow storm on months and for year, obtained in the majority of the cases by direct calculation of series of observations by duration is not less than 15 summer/years within the limits of the period of 1936-1964.

Page 43.

Data of stations with the series of observations less than 15 summer/years are given to more prolonged period by the method of relations with the aid of correlation curve/graphs. An average number of days with snow storm is the fundamental characteristic of snow storms.

For day with snow storm, is accepted the day, during which would be observed at least one of the forms of snow storms (common/general/total blizzard or without precipitation of snow), regardless of the fact, it was noted during this day one form of snow storms or all forms, including drifting snow. In this number are not included only the days when it was observed only drifting snow. During the use of data, placed in Table 3, one should consider the location of station, since on the number of days with snow storm, besides general climatic conditions, to a considerable degree have effect local characteristics and mainly degree of protectedness of the point. Thus in rugged terrain high open places are characterized by the greatest number of days with snowstorms and is protected from the wind valleys of snowstorms are attenuate/weakened. This is visually

evident based on the example of the stations of Maksatikha and Bezhetsk arrange/located on close distance from each other. On st. Maksatikha, arrange/located on vast wood clearing, a number of days with snow storm for year is equal to 17, while on st. Bezhetsk, which is located under the more discovered conditions, an annual number of days with snow storm reaches 25. As another example they can serve station becoming white and black. Station black is arrange/located on the more elevated place, than st. becoming white; therefore on st. black a number of days with snow storm for year reaches 37, and on st. becoming white it equal to 28 days. Also they are distinguished by a number of days with snow storm of station it is Rybinsk, city and Rybinsk, GMO, from which the second is arrange/located on the more discovered place. A number of days with snow storms at these stations for year is equal with respect to 33 and 46.

In the territory of snow storm in question they are observed predominantly from November through April, in the separate years of snow storm, they are noted during October and during May.

In Table 1a placed great number of days with snow storm on data of the selective network of stations with series of observations is not less than 18-20 summer/years.

A great number of days with snow storm on months gives the

representation of the possible limits which can achieve the snowstorm activity depending on the conditions of circulation. A small number of days with snow storm for month during the prolonged period of observations by larger part is equal to zero, i.e., in each of the winter months in the separate years of snow storm, they can no.

A number of days with snow storm must be considered with planning of measures for struggle with snowdrifts, snow retention, the organization of cleaning works, etc.

Table 2. Average number of days with snow drifts. In the table are included the days when it was observed only drifting snow and other forms of snow storms during this day were not noted. Average many-year number of days with snow drifts is calculated analogous with data Table 1 within the limits of the period of 1936-1964. In connection with the fact that to achieve uniformity and reliability of observations above drifting snow is still more difficult than according to number of days with snowstorm (as a result of great subjectivism in considering this phenomenon), Table 2 contains data on a small number of points/items, which have high-quality and homogeneous observational data during period not less than 15-20 summer/years.

Drifting snow even to larger degree than common/general/total and blowing snow, depend on local conditions - vulnerability of point/item, area relief, surface condition of snow cover, etc. This

is easy to trace based on the example st. Efremov, which during November 1955 was transferred from the foot of slope to the apex/vertex of hill (Table XIII).

Page 44.

On the discovered and elevated places of this territory, a number of days with snow drifts for year comprises into average/mean 10-14, while on those shielded - 5-8 days. Blowing away snow from the discovered places and basting snow-drifts of obstructions, drifting snow will do large damage to railroad transport to motor transport and agricultural fields; therefore must be considered them on the level with common/general/total snow storms.

Table 3. Duration of snow storms (watches). The table of the duration of snow storms is supplement and specification Table 1. In Table 3 is given the sum of a number of hours for month and year, during which were observed the snow storms, for the stations, having not less than 15-18 summer/years of observations in the period 1936-1965. In the indicated table is given also the average duration of snow storms during day with snow storm for year. This characteristic is obtained by dividing the average annual duration of snow storms into the number of days with snow storm for year, calculated during the same period, during which was determined the duration. Between a number of days with by snow storm for year and by

their total duration for year is good communication/connection (Fig. 31). Using this curve/graph, it is possible to determine the duration of snow storms for the point/item, on which there are data only and a number of days with snow storm.

Table 3a. Greatest duration of snow storms (watches). Data of Table 3a are selected from the available series of observations. They give certain representation of probable deviations from the average duration, given in Table 3.

Table 4. Frequency of different wind directions with snow storms (c/c). In table is given the frequency of different wind directions with snow storms on eight bearing/rhumbs, expressed in percentages from a number of all cases. Data processing was conducted in a mechanized manner during the period of observations 1936-1960.

Table XIII. Average number of days with drifting snow under varied conditions of location. St. Efremov.

(1) Местоположение	X	XI	XII	I	II	III	IV	(2) Год
(3) Подножье холма . .	0	0	1	2	2	1	0.08	6
(4) Вершина холма . . .	0.1	0.8	2	4	4	2	0.1	13

Key: (1). Location. (2). Year. (3). Foot of hill. (4). Apex/vertex of hill.

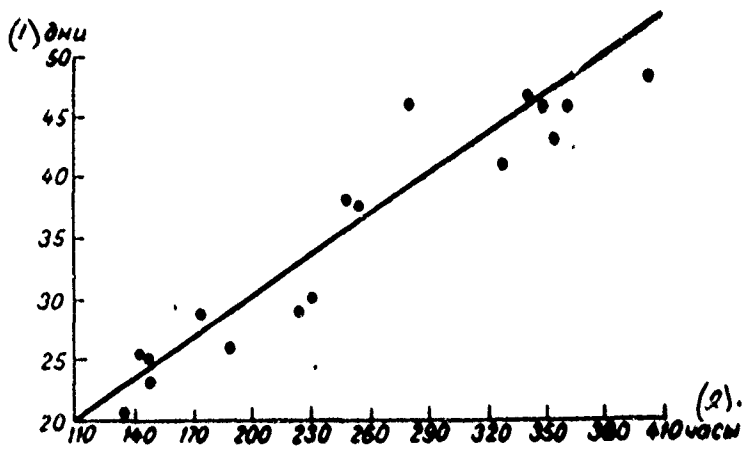


Fig. 31. Communication/connection of duration of snow storms and number of days with snow storm.

Key: (1). days. (2). hours.

In view of the fact that direction and wind velocity at stations are determined only within the climatological time periods of observations (1, 7, 13 and 19 hours), for calculating their frequency for snow storms, are used only the cases of snow storms, which were being observed in these periods.

In the territory most frequently of snow storm in question they are observed with the southeastern winds, the large frequency of snow storms is noted with the southwestern winds; most thinner/less frequent they are observed with the northern and northeastern winds. Under conditions of the crossed relief, the wind direction with snow storms in separate point/items can differ from characteristic for region direction. By an example it can serve as st. by Moore, which is arrange/located in left high coast r. of the oka the direction of current of which from the south-southeast to a north-north-west. Wind rose with snow storms is strongly elongated to south, the frequency of the winds of eastern and western directions is understated; with the northern winds of snow storm, they are observed rarely (Fig. 20). By another example can serve as st. Tula, arrange/located in the valley River Upa which flows from west to the east. The frequency of snow storms with the wind of eastern direction at this station is more than at other stations. Similar pattern is observed on st. Kaluga, arrange/located in similar on orientation valley. In valley itself the wind direction is changed depending on a change in the

direction of the individual sections of valley.

The account of data on the frequency of different wind directions with snow storms has the vital importance during planning and installation of windshield barriers on the railroads, the cultivation of tree belts, the snow retention and other measures.

Table 5. Frequency of different wind velocities with snow storms (o/o). The frequency of different wind velocities with snow storms is calculated with the aid of punchcard tabulators according to the same stations and during the same period of observations, as data of table 4. As initial material also served observations within climatological time periods (1, 7, 13 and 19 hours).

Wind velocity with snow storms even in larger degree than direction, depends on the location of observation station. On the larger part of the territory, predominate the snow storms at wind velocities 6-9 m/s, on the discovered elevated places the large frequency of snow storms is noted at velocities by 10-13 m/s and 12-25o/o - at velocities 14-17 m/s.

Table 6. The frequency of the temperature of air within limits at snow storms. The frequency of the temperature of air within different limits at snow storms, given in Table 6, is calculated with the aid punchcard tabulators according to the same stations and

during the same period of observations, as data of Table 4 and 5. In view of the fact that the temperature of air, just as direction and wind velocity, it was determined only within the established/installed time periods of observations (1, 7, 13 and 19 hours), for calculating its frequency were used only the cases of snow storms, which were being observed in these periods.

At low temperatures the snow more light/lung and finer-grained, in consequence of which at appropriate wind velocities it more easily yields to transfer. With thaws the snow is condensed and loses its mobility. Therefore at the positive temperatures of snow storm, they are observed in the exceptional cases. The greatest frequency of snow storms is noted at temperature from 0 to -10°, are frequent snow storms at temperature from -10 to -15°, and sometimes also at temperature -15, -20°.

Table 7. Frequency of different number of days with snow storm for year (%).

Page 46.

In table is given the frequency of different number of days with snow storm for year, expressed in percentages. Data of the tables are calculated according to the stations, which have series of

observations not less than 20-25 summer/years within the limits of the period of 1936-1964. As a result of insufficient prolonged period these data it is not possible to consider completely stable.

Data on the frequency of different number of days with snow storm supplement and decipher data on an average many-year number of days with snow storm, given in Table 1, i.e., they give the representation of the limits of the oscillation of a number of days with snow storm in separate years.

The frequency of different number of days with snow storm in separate years should be considered during planning of different measures for struggle with snowdrifts on roads and the organization of works for snow retention in agricultural fields.

Section 4. Thunderstorm.

As the characteristic of thunderstorm activity they serve average and great number of days with thunderstorm on months and for year, the frequency of different number of days with thunderstorm into separate years, their duration and daily variation.

With the introduction of observations at standard time since

1936, data on thunderstorm became more systematic and more full/total/complete. This is evident even during the comparison of average values (Table XIV). Therefore for the composition of the characteristics of thunderstorm pointed out above was used the period of observations from 1936 through 1965.

As can be seen from data of Table XIV, a number of days with thunderstorm during last/latter period (1936-1965) everywhere is somewhat more than for the preceding/previous years.

Table 1. Average number of days with thunderstorm.

Table 1a. Great number of days with thunderstorm. Table 1 gives an average number of days with the close and thunderstorms on months and for year.

Average many-year number of days with thunderstorm is calculated from the series of observations of different duration within the limits of the period of 1936-1965. Data of stations with the series of observations less than 15 summer/years, as a rule, were given to more prolonged periods on the graph/diagrams of the correlation dependence between a number of days with thunderstorm of the station in question and the adjacent with longer series of observations and similar location.

Table XIV. Average number of days with thunderstorm during different periods.

(1) Станция	(2) Период наблюдений	IV	V	VI	VII	VIII	IX	(3) Год
(4) Углич	1924—1943	0.3	3	5	8	4	1	21
	1936—1965	0.5	3	7	8	5	1	24
(5) Ржев	1924—1943	0.9	3	5	7	3	1	20
	1936—1965	0.8	4	6	9	5	1	26
(6) Александров	1907—1917, 1934—1943	0.5	3	5	7	4	0.6	20
	1936—1965	0.2	4	6	8	6	1	25
(7) Рязань	1924—1943	0.3	3	5	8	4	1	21
	1943—1965	0.5	4	7	8	6	2	27
(8) Тула	1900—1904, 1925—1943	0.8	4	5	6	4	1	21
	1936—1965	0.7	4	7	8	5	2	27

Key: (1). Station. (2). Period of observations. (3). Year. (4). Uglich. (5). Rzhev. (6). Aleksandrov. (7). Ryazan. (8). Tula.

Page 47.

Thunderstorm considers in the daytime such day, during which was observed the close or thunderstorm in region of meteorological station. If during one and the same day it was observed both close and thunderstorm, then the latter was not taken into attention. Are not included the days, during which is noted only the heat lightning without the close or thunderstorm.

The analysis of data shows that even the comparatively small elevations, available in the territory in question, cause an increase in the number of thunderstorm in comparison with flat terrain. This is explained mainly by the intensification of turbulence connected with the brokenness of relief.

Numbers lesser than unity in table mean that thunderstorm are observed not yearly.

Of Table 1a gives on the stations, which have 20 and more summer/years of observations within the limits of period from 1936 through 1965.

A great number of days with thunderstorm is selected from entire series of observations and gives the representation not only of the maximum quantity of days which was observed during the available period of observations, but also about maximum deviation of a number of days with thunderstorm from many-year average, i.e., about possible oscillations in separate years.

In connection with the fact that a great number of days with thunderstorm in separate months they are observed of different years, the sum of the greatest numbers of days with thunderstorm for all months always more the greatest number of days with this phenomenon

for entire year.

Table 2. Average duration of thunderstorm (watches).

Table 2a. Duration of thunderstorm in different time of days (hours). Table 2 gives the average duration of thunderstorm, obtained by the direct calculation of observational data within the limits of the period of 1941-1965 but not less than in 20 summer/years.

Initial data was the materials of the detailed recording of the duration of thunderstorm in hours and minutes, rounded during treatment to fourth or the tenth of hour.

The average duration of thunderstorm for a given month is obtained by dividing the common/general/total sum of the duration of thunderstorm for month into a number of summer/years of observations.

In Table 2 is placed also the average duration of thunderstorm during day with thunderstorm. This characteristic is obtained by the division of common/general/total annual duration of thunderstorm for full/total/complete days (from 18 to 18 hours) into the total annual number of days with thunderstorm during the same period of observations, as duration.

In Table 2a is included the average duration of thunderstorm in the different time of days on the six hour intervals of time, which it can serve as the index of the daily variation of thunderstorm. Is calculated it according to the same materials also during the same period, as data of Table 2.

The greatest duration of thunderstorm is observed by day, from 12 to 18 hours, somewhat smaller - from 18 to 20-22 hour. Lesser anything of thunderstorm is noted in night and before morning time, from 24 to 6 hour.

When in the months of the cold period of year is noted thunderstorm by the duration less than the fourth of hour, in the appropriate graph Table 2, are written zero.

Table 3. Frequency of different number of days with thunderstorm for year. Data of tables represent the frequency of a number of days with the close and isolated thunderstorm for year, obtained based on materials of the selective network of the stations, which evenly elucidate territory and which have a 25-30-year-old series of observations within the limits of the period of 1936-1965.

Page 48.

A number of days with thunderstorm is changed from year to year within considerable limits. The probability of different number of days makes it possible to judge the oscillations of the frequency of thunderstorm in separate years.

Section 5. Hail.

In connection with the fact that the procedure of observations on hail was not changed, for processing of data of this cell/element, were used the observations since 1891.

Table 1. Average number of days with hail.

Table 1a. Great number of days with hail. Table 1 gives given data of an average number of days with hail on months and for year, obtained by direct calculation from the series of observations of different duration from 15 of up to 75 years within the limits of the period of 1891-1965.

Numbers lesser than unity mean that deg in given month was observed not yearly.

A great number of days with hail table 1a) gives for stations

and the posts, which have not less than 20-30 summer/years of observations and evenly elucidating entire territory.

The great number of days with hail, selected as different period of observations, bears to a certain degree random character and oscillates on territory within sufficiently large limits.

In connection with the fact that a great number of days with hail in separate months they are observed of different years, the sum of the greatest number of days with hail for all months always more the greatest number of days with this phenomenon for year.

SECTION I

CLOUD COVER

[redacted]

Table 1.

Table 1. Recurrence of clear (0-2 points), semi-clear (3-7 points, and gray (8-10 points) sky conditions for total and low cloud cover.

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Yaroslavskaya Oblast												
6. Poshekhon'ye-Volodarsk												
Total												
0–2	16	22	27	32	30	32	34	37	25	15	13	13
3–7	3	4	5	10	15	17	18	16	10	6	4	2
8–10	81	74	68	58	55	51	48	47	65	79	83	85
Low												
0–2	32	43	50	54	52	57	56	57	43	27	24	27
3–7	1	2	3	6	13	14	14	13	9	5	2	1
8–10	67	55	47	40	35	29	30	30	48	68	74	72
10. Breytovo												
Total												
0–2	17	21	29	30	25	22	24	27	19	13	16	12
3–7	7	8	10	14	19	25	22	20	14	8	7	6
8–10	76	71	61	56	56	53	54	53	67	79	77	82
Low												
0–2	35	42	55	57	49	53	52	51	40	24	28	24
3–7	4	5	5	9	16	21	20	19	14	8	5	5
8–10	61	53	40	34	35	27	28	30	46	68	67	71
12. Mys Rozhnovskiy												
Total												
0–2	16	21	27	26	24	21	25	24	15	9	14	9
3–7	6	6	10	13	19	24	20	20	16	9	8	6
8–10	78	73	63	61	57	55	55	56	69	82	78	85
Low												
0–2	40	48	59	60	51	54	53	51	37	23	30	29
3–7	3	2	3	7	16	19	18	18	16	10	5	4
8–10	57	50	38	33	33	27	29	31	47	67	65	67
13. Danilov												
Total												
0–2	16	22	26	29	27	28	26	31	21	14	13	13
3–7	4	4	6	11	15	19	18	16	12	7	4	3
8–10	80	74	68	60	58	53	56	53	67	79	83	84
Low												
0–2	36	41	49	56	52	55	54	58	44	29	25	26
3–7	2	2	4	8	15	16	18	15	12	6	3	2
8–10	62	57	47	36	33	29	28	27	44	65	72	72
15, 18. Rybinsk												
Total												
0–2	15	21	25	29	27	28	27	32	22	14	12	12
3–7	5	5	7	12	17	20	22	20	13	7	4	3
8–10	80	74	68	59	56	52	51	48	65	79	84	85
Low												
0–2	33	39	47	51	46	49	48	51	37	24	22	24
3–7	2	2	4	8	17	20	20	17	13	7	2	3
8–10	65	59	49	41	37	31	32	32	50	69	76	73

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
25. Yaroslavl'												
Total												
0–2	15	21	24	29	25	27	25	30	22	14	12	12
3–7	8	7	11	15	22	27	28	23	18	11	7	6
8–10	77	72	65	56	53	46	47	47	60	75	81	82
Low												
0–2	24	35	45	49	42	45	41	42	32	22	23	18
3–7	7	7	7	13	21	25	27	23	20	12	6	6
8–10	69	58	48	38	37	30	32	35	48	66	71	76
26. Uglich												
Total												
0–2	16	21	26	30	27	27	27	30	22	15	13	13
3–7	3	5	8	13	19	24	25	22	14	8	4	3
8–10	81	74	66	57	54	49	48	48	64	77	83	84
Low												
0–2	27	36	46	52	50	52	53	53	40	27	22	21
3–7	2	2	3	8	16	19	19	17	11	5	2	1
8–10	71	62	51	40	34	29	28	30	49	68	76	78
31. Rostov												
Total												
0–2	19	23	27	32	29	32	30	34	26	18	15	14
3–7	5	6	8	11	17	20	22	19	14	8	5	4
8–10	77	71	65	57	54	48	48	47	60	74	80	82
Low												
0–2	39	44	53	56	52	58	57	56	46	32	28	28
3–7	2	2	3	9	17	18	21	18	14	7	3	2
8–10	59	54	44	35	31	24	22	26	40	61	69	70
33. Pereslavl'-Zalesskiy												
Total												
0–2	15	21	24	27	23	24	24	25	21	15	13	11
3–7	8	8	12	16	21	25	27	24	18	11	6	5
8–10	77	71	64	57	56	51	49	51	61	74	81	84
Low												
0–2	32	43	49	54	49	52	53	53	42	29	24	22
3–7	3	13	4	9	16	19	21	17	13	7	4	3
8–10	65	54	47	37	35	29	26	30	45	64	72	75
KALININSKAYA OBLAST												
36. Kes'ma												
Total												
0–2	16	20	27	26	26	23	22	24	18	14	13	10
3–7	6	6	9	11	15	19	22	18	12	8	5	4
8–10	78	74	64	63	59	58	56	58	70	78	82	86
Low												
0–2	36	41	55	54	48	48	47	46	39	28	26	26
3–7	2	3	4	8	13	17	18	16	10	6	3	2
8–10	62	56	41	38	39	35	35	38	51	66	71	72
42. Bologoye												
Total												
0–2	15	19	26	28	28	27	29	29	22	16	11	10
3–7	4	5	9	13	16	20	20	17	14	7	8	8
8–10	81	76	65	59	56	53	51	54	64	77	81	82
Low.												
0–2	25	32	44	50	47	48	51	48	38	25	18	17
3–7	2	2	4	10	16	21	20	17	14	7	3	3
8–10	73	66	52	40	37	31	29	35	48	68	79	80

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
46. Bezhetsk												
Total												
0–2	17	18	27	28	27	27	25	31	21	15	14	13
3–7	5	6	9	15	20	24	26	21	14	8	5	4
8–10	78	76	64	57	53	49	49	48	65	77	81	83
Low												
0–2	35	40	53	53	49	51	49	52	43	30	24	26
3–7	1	2	3	10	18	20	22	18	12	7	3	2
8–10	64	58	44	37	33	29	29	30	45	63	73	72
51. Vyshniy Volochek												
Total												
0–2	15	20	26	29	29	28	28	29	24	17	12	12
3–7	5	5	10	13	17	20	23	18	13	8	5	4
8–10	80	75	64	58	54	52	49	53	63	75	83	84
Low												
0–2	30	36	48	50	47	47	48	48	40	28	21	22
3–7	3	3	5	9	16	20	22	18	14	7	3	2
8–10	67	61	47	41	37	33	30	34	46	65	76	76
55. Kashin												
Total												
0–2	15	19	24	25	24	24	24	27	21	14	12	12
3–7	5	6	8	13	18	22	23	20	13	8	4	3
8–10	80	75	68	62	58	54	53	53	66	78	84	85
Low												
0–2	28	37	46	49	44	46	46	46	37	25	21	20
3–7	3	3	3	11	19	20	22	20	12	7	3	2
8–10	69	60	51	40	37	34	32	34	51	68	76	78
59. Ostashkov												
Total												
0–2	15	18	26	27	27	23	25	27	22	15	12	11
3–7	3	4	6	12	16	23	22	19	12	6	3	3
8–10	82	78	68	61	57	54	53	54	66	79	85	86
Low												
0–2	26	31	44	49	49	52	52	51	42	28	19	19
3–7	2	2	2	9	14	18	18	16	10	5	2	1
8–10	72	67	54	42	37	30	30	33	48	67	79	80
64. Kuvshinovo												
Total												
0–2	15	18	27	29	29	27	27	29	24	17	13	12
3–7	3	4	7	10	14	17	18	15	10	4	3	1
8–10	82	78	66	61	57	56	55	56	66	79	84	87
Low												
0–2	30	36	49	49	46	46	45	44	36	27	22	20
3–7	2	2	3	7	14	15	17	15	10	4	2	1
8–10	68	62	48	44	40	39	38	41	54	69	76	79
65. Torzhok												
Total												
0–2	14	18	24	26	24	24	23	26	22	16	12	12
3–7	9	5	11	16	21	23	25	21	18	9	6	4
8–10	77	77	65	58	55	53	52	53	60	75	82	84
Low												
0–2	30	37	47	52	46	47	48	49	42	30	24	24
3–7	4	3	5	13	22	24	24	22	17	10	4	3
8–10	66	60	48	35	32	29	28	29	41	60	72	73

Cloud cover (points).	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
73. Kalinin												
Total												
0–2	14	18	24	26	25	24	23	25	21	15	13	11
3–7	5	5	8	12	18	21	22	19	14	9	4	4
8–10	81	77	68	62	57	55	55	56	65	76	83	85
Low												
0–2	22	28	40	43	39	40	37	39	32	24	19	18
3–7	4	5	6	13	20	22	25	21	15	8	4	3
8–10	74	67	54	44	41	38	38	40	53	68	77	79
82. Staritsa												
Total												
0–2	14	19	25	27	29	27	30	25	23	16	13	13
3–7	5	6	9	15	20	25	24	22	16	10	5	4
8–10	81	75	66	58	51	48	46	53	61	74	82	83
Low												
0–2	33	42	51	53	52	54	53	48	41	30	24	27
3–7	4	3	4	11	17	19	20	19	13	8	4	4
8–10	63	55	45	36	31	27	27	33	46	62	72	69
83. Turginovo												
Total												
0–2	13	17	22	25	24	22	21	23	20	14	11	12
3–7	6	8	10	16	20	24	28	21	15	10	7	4
8–10	81	75	68	59	56	54	51	56	65	76	82	84
Low												
0–2	31	39	50	56	50	51	50	48	42	30	25	25
3–7	3	3	4	10	17	21	22	19	12	7	4	3
8–10	66	58	46	34	33	28	28	33	46	63	71	72
84. Toropets												
Total												
0–2	11	15	20	20	23	19	18	18	16	11	9	9
3–7	4	5	10	16	20	26	27	22	18	11	5	4
8–10	85	80	70	64	57	55	55	60	66	78	86	87
Low												
0–2	22	29	40	41	41	38	39	38	32	21	15	16
3–7	4	4	6	15	21	27	27	23	18	10	4	4
8–10	74	67	54	44	38	35	34	39	50	69	81	80
88. Zapadnaya Dvina												
Total												
0–2	14	16	24	23	24	21	21	25	22	14	11	10
3–7	5	6	9	14	19	25	26	20	15	9	5	5
8–10	81	78	67	63	57	54	53	55	63	77	84	85
Low												
0–2	24	27	42	45	45	44	44	44	39	26	17	18
3–7	4	4	7	13	20	24	26	21	15	9	4	3
8–10	72	69	51	42	35	32	30	35	46	65	79	79
89. Rzhev												
Total												
0–2	12	18	24	27	27	26	26	28	23	16	13	11
3–7	5	4	6	11	14	18	18	15	12	8	4	3
8–10	83	78	70	62	59	56	56	57	65	76	83	86
Low												
0–2	21	29	40	44	41	44	43	42	36	24	18	16
3–7	3	3	4	9	15	17	18	16	11	8	3	3
8–10	76	68	56	47	44	39	39	42	53	68	79	81

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
94. Белый												
Total												
0–2	14	20	29	28	30	27	29	28	24	16	13	12
3–7	3	4	6	11	15	19	19	16	10	7	4	3
8–10	83	76	65	61	55	54	52	56	66	77	83	85
Low												
0–2	27	37	47	50	50	50	52	49	44	28	21	22
3–7	1	2	3	8	14	17	17	14	9	5	2	2
8–10	72	61	50	42	36	33	31	37	47	67	77	76
MOSKOVSKAYA OBLAST												
103. Дмитров												
Total												
0–2	16	22	27	28	24	26	25	25	22	15	15	12
3–7	5	5	8	13	19	24	25	20	14	9	6	4
8–10	79	73	65	59	57	50	50	55	64	76	79	84
Low												
0–2	28	34	44	48	42	45	44	42	35	25	24	20
3–7	3	3	5	10	19	22	24	22	14	8	3	3
8–10	69	63	51	42	39	33	32	36	51	67	73	77
110. Волоколамск												
Total												
0–2	15	16	24	27	29	27	27	29	23	16	13	12
3–7	5	7	9	14	17	24	25	20	16	10	5	4
8–10	80	77	67	59	54	49	48	51	61	74	82	84
Low												
0–2	27	33	43	48	45	47	47	46	37	28	21	20
3–7	3	4	4	12	18	23	24	20	16	7	5	2
8–10	70	63	53	40	37	30	29	34	47	65	74	78
117. Починки												
Total												
0–2	19	23	23	25	26	27	24	28	24	17	14	12
3–7	6	7	10	13	15	20	21	16	14	8	5	4
8–10	75	70	67	62	59	53	55	56	62	75	81	84
Low												
0–2	39	46	48	53	50	55	51	53	45	35	28	26
3–7	3	3	4	8	17	16	18	16	13	6	3	3
8–10	58	51	48	39	33	29	31	31	42	59	69	71
118. Ново-Иерусалим												
Total												
0–2	16	19	25	28	28	30	30	31	25	17	14	12
3–7	5	6	8	12	17	22	23	19	13	8	5	5
8–10	79	75	67	60	55	48	47	50	64	75	81	83
Low												
0–2	28	35	44	49	47	49	48	48	39	27	22	21
3–7	4	4	5	12	16	21	23	19	13	8	4	3
8–10	68	61	51	39	37	30	29	33	48	65	74	76
121. Москва, с.-х. академия												
Total												
0–2	16	17	24	26	27	28	27	27	24	15	13	11
3–7	4	7	9	14	19	23	25	21	16	9	6	4
8–10	80	76	67	60	54	49	48	52	60	76	81	85
Low												
0–2	29	36	45	48	48	50	48	48	42	28	23	21
3–7	4	4	5	12	17	20	23	20	13	7	4	3
8–10	67	60	50	40	35	30	29	32	45	65	73	76

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
124. Москва, ВДНХ												
Total												
0–2	14	19	27	27	27	26	27	25	22	15	18	10
3–7	5	5	8	12	16	20	21	18	14	7	5	4
8–10	81	76	65	61	57	54	52	57	64	78	77	86
Low												
0–2	31	38	47	51	47	50	47	45	41	27	28	21
3–7	4	4	6	11	17	20	21	20	14	7	5	4
8–10	65	58	47	38	36	30	32	35	45	66	67	75
142. Куровское												
Total												
0–2	20	25	27	29	29	30	31	33	28	18	16	15
3–7	4	4	7	12	17	22	22	19	13	8	4	3
8–10	76	71	66	59	54	48	47	48	59	74	80	82
Low												
0–2	36	43	49	54	53	57	57	56	48	33	28	27
3–7	2	3	6	9	15	18	19	16	10	6	2	2
8–10	62	54	45	37	32	25	24	28	42	61	70	71
145. Черусти												
Total												
0–2	21	25	29	31	30	31	31	33	29	20	18	17
3–7	4	5	7	12	16	22	22	19	14	7	4	3
8–10	75	70	64	57	54	47	47	48	57	73	78	80
Low												
0–2	39	47	52	53	52	54	53	54	46	32	31	29
3–7	3	2	4	8	15	20	21	17	12	6	3	1
8–10	58	51	44	39	33	26	26	29	42	62	66	70
156. Коломна												
Total												
0–2	20	24	28	29	30	30	30	33	28	19	17	15
3–7	4	4	7	14	16	21	23	19	14	8	6	4
8–10	76	72	65	57	54	49	47	48	58	73	77	81
Low												
0–2	36	43	52	50	48	52	50	51	44	30	28	28
3–7	2	1	2	9	14	17	18	16	12	7	2	2
8–10	62	56	46	41	38	31	32	33	44	63	70	70
157. Михнево												
Total												
0–2	17	20	24	25	26	26	27	29	25	17	14	13
3–7	5	7	9	15	21	25	26	24	18	10	7	5
8–10	78	73	67	60	53	49	47	47	57	73	79	82
Low												
0–2	32	36	44	49	51	56	54	54	44	30	24	22
3–7	2	3	5	12	19	21	24	20	16	8	4	3
8–10	66	61	51	39	30	23	22	26	40	62	72	75
163. Кашира												
Total												
0–2	18	23	27	30	30	32	33	34	30	20	16	14
3–7	6	8	9	15	24	27	27	24	17	10	10	9
8–10	76	69	64	55	46	41	40	42	53	70	74	77
Low												
0–2	32	41	45	50	50	55	53	56	48	33	26	25
3–7	3	3	5	11	22	23	26	20	15	8	3	2
8–10	65	56	50	39	28	22	21	24	37	59	71	73

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
VLADIMIRSKAYA OBLAST												
168. Александров												
Total												
0–2	15	19	22	23	23	25	23	27	21	14	12	11
3–7	5	6	9	14	17	21	23	18	13	8	5	4
8–10	80	75	69	63	60	54	54	55	66	78	83	85
Low												
0–2	33	37	45	49	46	50	49	49	40	27	23	23
3–7	2	3	4	10	16	18	20	17	12	7	3	2
8–10	65	60	51	41	38	32	31	34	48	66	74	75
171. Вязники												
Total												
0–2	17	24	25	30	29	32	31	34	26	17	16	14
3–7	5	6	8	14	19	25	25	22	14	8	6	4
8–10	78	70	67	56	52	43	44	44	60	75	78	82
Low												
0–2	32	44	52	60	58	63	58	60	50	34	30	26
3–7	3	3	4	8	15	20	20	16	11	6	3	2
8–10	65	53	44	32	27	17	22	24	39	60	67	72
176. Владимир												
Total												
0–2	20	25	27	30	27	29	28	33	26	18	16	14
3–7	5	5	9	15	21	27	27	23	15	8	6	4
8–10	75	70	64	55	52	44	45	44	59	74	78	82
Low												
0–2	37	43	50	55	51	56	54	57	45	30	28	25
3–7	2	2	4	9	17	20	21	17	11	6	2	2
8–10	61	55	46	36	32	24	25	26	44	64	70	73
180. Селивановское оп. поле												
Total												
0–2	18	24	27	27	26	28	27	29	24	17	18	14
3–7	6	8	12	19	23	33	30	27	17	10	7	5
8–10	76	68	61	54	51	39	43	44	59	73	75	81
Low												
0–2	33	42	48	52	47	52	48	49	39	26	29	26
3–7	4	3	5	10	16	21	22	19	13	7	4	2
8–10	63	55	47	38	37	27	30	32	48	67	67	72
186. Муром												
Total												
0–2	20	26	29	34	34	37	37	39	30	21	19	16
3–7	3	4	6	11	13	20	19	16	12	6	4	3
8–10	77	70	65	55	53	43	44	45	58	73	77	81
Low												
0–2	35	42	51	55	55	59	56	59	48	31	29	24
3–7	1	2	2	7	12	17	17	14	10	5	2	2
8–10	64	56	47	38	33	24	27	27	42	64	69	74
SMOLENSKAYA OBLAST												
191. Сычевка												
Total												
0–2	15	19	26	29	27	25	26	28	25	16	13	13
3–7	4	5	8	12	18	22	21	20	14	9	5	4
8–10	81	76	66	59	55	53	53	52	61	75	82	83
Low												
0–2	27	38	49	52	48	47	47	49	43	28	21	23
3–7	2	2	3	10	15	20	19	16	11	7	4	2
8–10	71	60	48	38	37	33	34	35	46	65	75	75

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
194. Велиж												
Total												
0–2	14	17	27	27	27	27	26	26	23	16	13	11
3–7	4	5	8	14	17	22	23	19	15	8	6	4
8–10	82	77	65	59	56	51	51	55	62	76	81	85
Low												
0–2	22	29	44	48	46	47	45	43	39	27	21	16
3–7	4	4	5	9	16	19	21	17	13	8	4	3
8–10	74	67	51	43	38	34	34	40	48	65	75	81
195. Гжатск												
Total												
0–2	15	19	26	30	29	30	29	31	24	17	13	12
3–7	5	6	8	16	22	26	26	24	17	10	6	5
8–10	80	75	66	54	49	44	45	45	59	73	81	83
Low												
0–2	26	35	46	51	47	51	48	48	41	29	23	21
3–7	4	3	3	12	19	20	21	18	13	7	3	3
8–10	70	62	51	37	34	29	31	34	46	64	74	76
196. Ново-Пречистое												
Total												
0–2	15	17	24	24	24	22	22	23	21	14	11	11
3–7	6	8	12	20	29	34	32	27	21	12	7	5
8–10	79	75	64	56	47	44	46	50	58	74	82	84
Low												
0–2	22	32	42	47	46	48	47	47	40	28	20	19
3–7	5	5	6	15	25	28	28	24	18	11	5	4
8–10	73	63	52	38	29	24	25	29	42	61	75	77
198. Демидов												
Total												
0–2	16	18	24	26	28	27	28	27	24	17	12	12
3–7	4	5	8	14	19	24	24	21	16	8	5	5
8–10	80	77	68	60	53	49	48	52	60	75	83	83
Low												
0–2	31	34	44	49	50	51	53	49	45	30	21	24
3–7	2	3	4	12	17	22	21	20	14	7	3	2
8–10	67	63	52	39	33	27	26	31	41	63	76	74
199. Вязьма												
Total												
0–2	13	17	22	25	26	24	25	26	22	15	12	11
3–7	3	5	6	12	17	19	19	17	14	8	4	3
8–10	84	78	72	63	57	57	56	57	64	77	84	86
Low												
0–2	23	33	42	51	52	55	54	53	44	28	21	20
3–7	3	4	5	11	18	21	21	18	15	8	4	3
8–10	74	63	53	38	30	24	25	29	41	64	75	77
203. Сафоново												
Total												
0–2	12	17	26	26	26	23	25	23	22	15	14	11
3–7	4	6	8	17	21	23	24	22	18	12	5	4
8–10	84	77	66	57	53	54	51	55	60	73	81	85
Low												
0–2	26	33	45	51	50	51	49	47	42	32	24	22
3–7	2	3	3	11	16	19	20	18	14	6	2	2
8–10	72	64	52	38	34	30	31	35	44	62	74	76

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
205. Темкино												
Total												
0–2	14	19	24	27	31	28	30	29	26	17	14	13
3–7	5	7	9	17	21	26	26	25	16	10	5	5
8–10	81	74	67	56	48	46	44	46	58	73	81	82
Low												
0–2	32	40	48	55	56	57	56	55	48	33	27	28
3–7	4	3	5	11	16	22	20	18	11	8	4	4
8–10	64	57	47	34	28	21	24	27	41	59	69	68
211. Смоленск												
Total												
0–2	14	17	25	25	28	26	26	26	24	16	11	11
3–7	5	7	9	16	22	24	27	24	18	11	6	5
8–10	81	76	66	59	50	50	47	50	58	73	83	84
Low												
0–2	24	31	43	46	48	46	48	45	42	27	20	18
3–7	5	4	6	14	22	26	26	24	17	10	4	4
8–10	71	65	51	40	30	28	26	31	41	63	76	78
212. Ельня												
Total												
0–2	17	20	28	29	32	29	29	30	28	18	14	13
3–7	5	6	8	15	22	25	25	23	18	10	4	4
8–10	78	74	64	56	46	46	46	47	54	72	82	83
Low												
0–2	30	37	47	51	54	53	54	53	46	32	22	24
3–7	2	2	3	11	18	21	21	18	14	8	3	2
8–10	68	61	50	38	28	26	25	29	40	60	75	74
213. Починок												
Total												
0–2	18	19	27	27	30	27	27	27	26	18	13	12
3–7	5	6	11	17	26	28	30	27	20	11	7	6
8–10	77	75	62	56	44	45	43	46	54	71	80	82
Low												
0–2	31	37	50	52	52	50	51	49	46	34	26	26
3–7	2	2	4	11	19	23	23	19	15	7	3	2
8–10	67	61	46	37	29	27	26	32	39	59	71	72
217. Рославль												
Total												
0–2	16	18	25	26	30	26	30	30	26	19	13	13
3–7	4	5	7	14	20	25	25	20	17	8	4	4
8–10	80	77	68	60	50	49	45	50	57	73	83	83
Low												
0–2	26	32	43	50	54	52	53	51	48	33	21	22
3–7	3	3	4	11	17	20	21	18	14	6	3	2
8–10	71	65	53	39	29	28	26	31	38	61	76	76
KALUZHSKAYA OBLAST												
219. Малоярославец												
Total												
0–2	17	21	28	30	31	33	33	34	30	20	15	13
3–7	4	5	7	12	18	23	23	21	13	9	5	3
8–10	79	74	65	58	51	44	44	45	57	71	80	84
Low												
0–2	32	39	47	51	50	55	52	54	46	33	25	24
3–7	4	3	5	12	19	20	22	19	15	8	4	3
8–10	64	58	48	37	31	25	26	27	39	59	71	73

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
224. Мосальск												
Total												
0–2	13	19	26	28	30	29	30	31	28	19	15	13
3–7	4	5	7	15	20	24	22	20	16	8	4	4
8–10	83	76	67	57	50	47	48	49	56	73	81	83
Low												
0–2	28	37	46	56	54	58	57	57	50	36	26	24
3–7	3	3	4	10	16	17	15	15	13	6	2	2
8–10	69	60	50	34	30	25	28	28	37	58	72	74
225. Калуга												
Total												
0–2	17	20	27	30	32	31	33	34	30	20	16	14
3–7	3	5	6	10	15	20	19	16	12	8	4	4
8–10	80	75	67	60	53	49	48	50	58	72	80	82
Low												
0–2	27	34	43	47	49	52	50	49	43	30	22	21
3–7	3	3	4	9	15	17	17	17	12	7	4	3
8–10	70	63	53	44	36	31	33	34	45	63	74	76
226. Спас-Деменск												
Total												
0–2	15	20	26	28	31	28	29	29	27	18	13	12
3–7	4	5	8	16	22	26	27	24	17	11	5	4
8–10	81	75	66	56	47	46	44	47	56	71	82	84
Low												
0–2	24	31	41	45	47	46	46	46	40	28	20	19
3–7	2	3	5	14	19	24	23	21	16	9	4	3
8–10	74	66	54	41	34	30	31	33	44	63	76	78
228. Сухиничи												
Total												
0–2	17	22	28	29	32	30	30	32	30	20	16	15
3–7	4	4	8	17	20	26	26	23	17	10	5	4
8–10	79	74	64	54	48	44	44	45	53	70	79	81
Low												
0–2	38	47	51	52	50	49	50	50	46	34	30	28
3–7	3	3	4	13	21	26	26	20	15	9	4	2
8–10	59	50	45	35	29	25	24	30	39	57	66	70
232. Жиздра												
Total												
0–2	18	21	27	29	33	32	35	33	30	20	17	14
3–7	4	6	9	16	21	25	24	21	14	10	5	4
8–10	78	73	64	55	46	43	41	46	56	70	78	82
Low												
0–2	25	33	41	47	48	52	52	49	43	30	24	19
3–7	2	3	4	10	17	19	19	17	12	8	3	2
8–10	73	64	55	43	35	29	29	34	45	62	73	79
RYAZANSKAYA OBLAST												
233. Тума												
Total												
0–2	19	24	26	28	27	32	29	32	27	19	16	15
3–7	5	5	8	13	19	22	23	21	15	8	6	3
8–10	76	71	66	59	54	46	48	47	58	73	78	82
Low												
0–2	33	38	46	49	48	53	48	49	43	30	27	26
3–7	3	4	5	11	16	20	23	21	13	6	4	2
8–10	64	58	49	40	36	27	29	30	44	64	69	72

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
234. Елатьма												
Total												
0–2	21	25	28	32	33	36	35	36	30	20	18	16
3–7	3	5	6	11	15	19	19	17	12	7	4	3
8–10	76	70	66	57	52	45	46	47	58	73	78	81
Low												
0–2	40	45	51	54	55	61	58	60	49	32	29	26
3–7	2	2	3	8	12	14	16	14	9	4	2	2
8–10	58	53	46	38	33	25	26	36	42	64	69	72
237. Рязань												
Total												
0–2	20	23	27	29	30	30	31	33	29	19	17	15
3–7	4	5	7	11	16	23	21	19	14	8	5	5
8–10	76	72	66	60	54	47	48	48	57	73	78	80
Low												
0–2	32	40	46	50	52	56	54	55	50	32	28	24
3–7	2	2	4	8	13	17	16	15	10	5	2	2
8–10	66	58	50	42	35	27	30	30	40	63	70	74
239. Сасово												
Total												
0–2	20	24	28	29	31	32	32	33	29	19	18	15
3–7	6	6	8	15	19	28	26	23	16	11	7	5
8–10	74	70	64	56	50	40	42	44	55	70	75	80
Low												
0–2	37	43	50	52	51	56	53	53	48	33	30	27
3–7	3	3	5	12	19	21	23	21	14	9	4	3
8–10	60	54	45	36	30	23	24	26	38	58	66	70
240. Шилово												
Total												
0–2	22	25	29	31	35	40	36	41	33	21	20	17
3–7	3	4	5	11	13	18	18	15	12	7	4	3
8–10	75	71	66	58	52	42	46	44	55	72	76	80
Low												
0–2	44	49	56	57	58	65	62	64	55	37	36	32
3–7	1	1	2	8	12	14	15	12	10	6	2	1
8–10	55	50	42	35	30	21	23	24	35	57	62	67
242. Михайлов												
Total												
0–2	20	22	27	29	32	33	34	36	31	21	19	15
3–7	5	6	8	14	19	26	25	21	15	9	6	4
8–10	75	72	65	57	49	41	41	43	54	70	75	81
Low												
0–2	37	44	51	56	57	63	61	63	56	38	33	26
3–7	2	2	2	8	15	18	20	15	10	6	3	2
8–10	61	54	47	36	28	19	19	22	34	56	64	72
243. Шацк												
Total												
0–2	18	22	27	28	27	31	28	30	27	20	21	15
3–7	6	6	8	13	17	23	20	19	15	10	6	4
8–10	76	72	65	59	56	46	52	51	58	70	73	81
Low												
0–2	40	46	54	54	51	59	51	56	49	38	40	33
3–7	7	2	3	10	17	19	20	17	13	9	3	2
8–10	53	52	43	36	32	22	29	27	38	53	57	65
246. Павелец												
Total												
0–2	20	23	27	29	32	33	33	35	32	22	19	15
3–7	4	5	7	11	16	21	20	17	13	7	5	5
8–10	76	72	66	60	52	46	47	48	55	71	76	80

Cloud cover (points)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Low												
0–2	43	49	56	57	61	62	61	65	59	41	35	31
3–7	1	1	2	8	12	16	17	13	10	5	2	1
8–10	56	50	42	35	27	22	22	22	31	54	63	68
247. Ряжск												
Total												
0–2	22	24	27	28	29	28	27	32	30	20	19	16
3–7	6	8	11	19	27	34	33	28	21	13	8	5
8–10	72	68	62	53	44	38	40	40	50	67	73	79
Low												
0–2	38	42	49	52	54	57	56	59	53	38	32	27
3–7	2	2	3	11	18	22	22	18	13	6	2	1
8–10	60	56	48	37	28	21	22	23	34	56	66	72
TUL'SKAYA OBLAST												
255. Тула												
Total												
0–2	16	19	25	27	29	29	29	30	27	18	16	14
3–7	6	7	9	15	21	27	25	24	17	10	6	5
8–10	78	74	66	58	50	44	46	46	56	72	78	81
Low												
0–2	27	34	43	48	48	50	48	49	44	31	25	22
3–7	4	4	5	12	20	24	25	22	16	9	4	4
8–10	69	62	52	40	32	26	27	29	40	60	71	74
259. Белев												
Total												
0–2	17	20	26	27	29	29	31	31	29	20	15	14
3–7	4	4	9	14	21	26	24	21	16	9	5	4
8–10	79	76	65	59	50	45	45	48	55	71	80	82
Low												
0–2	32	38	47	51	53	56	53	54	49	34	27	26
3–7	2	2	3	11	17	20	20	18	13	6	2	2
8–10	66	60	50	38	30	24	27	28	38	60	71	72
262. Волово												
Total												
0–2	21	24	28	28	32	32	33	34	31	20	18	15
3–7	4	5	7	14	20	27	25	22	17	11	5	3
8–10	75	71	65	58	48	41	42	44	52	69	77	82
Low												
0–2	33	39	48	52	55	58	54	57	53	36	28	23
3–7	2	2	2	9	15	19	21	17	12	6	2	2
8–10	65	59	50	39	30	23	25	26	35	58	70	75
263. Чернь и Скуратово												
Total												
0–2	18	21	26	28	33	34	35	34	30	20	17	14
3–7	4	5	6	12	18	23	22	21	15	9	5	3
8–10	78	74	68	60	49	43	43	45	55	71	78	83
Low												
0–2	26	33	40	47	50	53	49	49	46	30	26	19
3–7	2	3	4	10	16	19	19	18	12	7	3	2
8–10	72	64	56	43	34	28	32	33	42	63	71	79
265. Ефремов												
Total												
0–2	20	25	29	30	33	34	36	37	35	23	20	16
3–7	3	4	6	11	19	23	21	21	13	8	4	3
8–10	77	71	65	59	48	43	43	42	52	69	76	81
Low												
0–2	32	36	43	47	50	54	53	52	49	34	27	23
3–7	1	2	3	7	16	19	18	18	11	5	2	2
8–10	67	62	54	46	34	27	29	30	40	61	71	75

Table 2. Recurrence of clear (0-2 points), semi-clear (3-7 points) and gray (8-10 points) sky conditions for total cloud cover at various hours of the day (%).

Months	Hours	Cloud cover (points)								
		0–2	3–7	8–10	0–2	3–7	8–10	0–2	3–7	8–10
		YAROSLAVSKAYA OBLAST			KALININSKAYA OBLAST					
		13. Даниилов			51. Вышний Волочек			84. Торопец		
I	1	18	3	79	16	2	82	12	4	84
	7	15	3	82	14	6	80	9	4	87
	13	13	4	83	12	7	81	9	5	86
	19	19	4	77	19	4	77	15	4	81
II	1	26	2	72	22	3	75	20	4	76
	7	16	3	81	14	4	82	11	3	86
	13	18	7	75	18	9	73	11	7	82
	19	27	5	68	24	5	71	19	4	74
III	1	34	4	62	36	6	58	32	6	62
	7	21	5	74	19	8	73	13	8	79
	13	21	8	71	21	12	67	16	13	71
	19	26	8	66	29	11	60	20	11	69
IV	1	41	9	50	45	7	48	33	13	54
	7	29	7	64	27	10	63	22	10	68
	13	20	14	66	18	19	63	12	21	67
	19	27	13	60	26	16	58	15	18	67
V	1	41	11	48	44	12	44	38	18	44
	7	29	13	58	31	16	53	25	17	58
	13	15	18	67	17	22	61	11	23	66
	19	23	18	59	24	19	57	17	23	60
VI	1	39	15	46	38	17	45	29	24	47
	7	35	14	51	36	16	48	26	20	54
	13	13	25	62	12	27	61	4	33	63
	19	26	21	53	24	23	53	15	28	57
VII	1	37	15	48	42	19	39	30	26	44
	7	32	13	55	35	17	48	23	23	54
	13	11	26	63	10	33	57	6	31	63
	19	27	18	55	24	24	52	13	30	57
VIII	1	48	13	39	48	13	39	37	18	45
	7	33	10	57	30	13	57	18	19	63
	13	14	23	63	12	26	62	5	25	70
	19	30	19	51	27	20	53	13	26	61
IX	1	35	10	55	38	10	52	29	19	52
	7	17	7	76	18	9	73	14	9	77
	13	10	16	74	13	17	70	5	20	75
	19	24	14	62	26	17	57	17	23	60
X	1	20	5	75	24	7	69	19	10	71
	7	10	6	84	10	9	81	6	9	85
	13	8	7	85	9	10	81	5	13	82
	19	19	8	73	24	9	67	14	12	74
XI	1	15	4	81	15	5	80	12	4	84
	7	10	3	87	9	5	86	6	5	89
	13	8	5	87	9	5	86	6	6	88
	19	17	5	78	17	4	79	11	5	84

Months	Hours	Cloud cover (points)								
		0–2	3–7	8–10	0–2	3–7	8–10	0–2	3–7	8–10
XII	1	15	3	82	15	3	82	11	4	85
	7	12	3	85	12	4	84	9	3	88
	13	9	4	87	10	4	86	6	5	89
	19	14	4	82	13	3	84	11	4	85
		MOSKOVSKAYA OBLAST			VLADIMIRSKAYA OBLAST			SMOLENSKAYA OBLAST		
		121. Москва, с.-х. академия			176. Владимир			211. Смоленск		
I	1	18	3	79	23	2	75	16	4	80
	7	14	4	82	17	6	77	10	4	86
	13	12	7	81	14	9	77	10	8	82
	19	20	4	76	27	3	70	17	4	79
II	1	21	5	74	28	3	69	22	4	74
	7	11	7	82	16	6	78	11	6	83
	13	15	10	75	22	8	70	14	10	76
	19	22	6	72	32	3	65	22	7	71
III	1	33	5	62	34	5	61	35	5	60
	7	19	9	72	22	7	71	18	8	74
	13	18	14	68	23	15	62	22	12	66
	19	27	9	64	29	10	61	27	11	62
IV	1	42	8	50	47	8	45	42	12	46
	7	26	11	63	26	14	60	24	11	65
	13	15	19	66	20	19	61	15	20	65
	19	23	18	59	25	19	56	23	21	56
V	1	43	15	42	44	14	42	46	17	37
	7	30	15	55	27	19	54	28	21	51
	13	14	25	61	14	26	60	12	28	60
	19	23	22	55	22	26	52	24	24	52
VI	1	43	18	39	43	22	35	41	20	39
	7	37	16	47	35	23	42	33	21	46
	13	10	30	60	12	35	53	8	32	60
	19	24	27	49	25	29	46	22	26	52
VII	1	46	18	36	44	21	35	44	22	34
	7	32	18	50	32	24	44	29	21	50
	13	9	34	57	11	35	54	9	35	56
	19	21	29	50	25	29	46	22	30	48
VIII	1	49	15	36	56	12	32	48	17	35
	7	27	16	57	32	19	49	27	19	54
	13	10	28	62	14	33	53	8	31	61
	19	23	24	53	27	28	45	23	28	49
IX	1	37	13	50	43	10	47	43	13	44
	7	20	11	69	21	13	66	20	14	66
	13	13	20	67	13	21	66	10	22	68
	19	27	17	56	26	18	56	27	24	49
X	1	20	7	73	25	6	69	23	9	68
	7	11	7	82	13	8	79	10	10	80
	13	8	13	79	9	11	80	9	13	78
	19	20	10	70	25	7	68	22	11	67
XI	1	15	4	81	20	3	77	15	5	80
	7	11	7	82	12	8	80	8	6	86
	13	10	7	83	11	9	80	8	7	85
	19	16	5	79	22	3	75	14	5	81

Months	Hours	Cloud cover (points)								
		0–2	3–7	8–10	0–2	3–7	8–10	0–2	3–7	8–10
XII	1	14	3	83	17	2	81	14	4	82
	7	10	5	85	14	4	82	9	3	88
	13	7	7	86	10	7	83	7	6	87
	19	12	3	85	17	3	80	14	6	80
SMOLENSKAYA OBLAST					KALUZHSKAYA OBLAST			RYAZANSKAYA OBLAST		
217. Рославль					232. Жиздра			234. Елатьма		
I	1	17	3	80	20	3	77	24	2	74
	7	13	5	82	14	4	82	19	3	78
	13	12	7	81	15	7	78	17	5	78
	19	19	4	77	22	4	74	24	4	72
II	1	20	4	76	25	5	70	28	3	69
	7	13	4	83	16	4	80	21	4	75
	13	15	8	77	17	10	73	20	9	71
	19	25	4	71	29	6	65	31	4	65
III	1	33	4	63	34	6	60	36	4	60
	7	18	7	75	21	8	71	21	5	74
	13	21	10	69	23	13	64	27	8	65
	19	27	7	66	32	8	60	30	7	63
IV	1	42	8	50	44	9	47	44	8	48
	7	26	10	64	29	14	57	32	8	60
	13	15	18	67	16	20	64	23	16	61
	19	21	19	60	25	19	56	29	11	60
V	1	50	15	35	51	13	36	47	10	43
	7	31	18	51	37	16	47	35	12	53
	13	11	25	64	16	30	54	20	21	59
	19	27	22	51	29	24	47	29	17	54
VI	1	38	21	41	48	17	35	52	11	37
	7	33	20	47	39	21	40	42	15	43
	13	10	32	58	13	40	47	19	30	51
	19	24	25	51	31	22	47	33	19	48
VII	1	47	21	32	54	14	32	52	13	35
	7	35	18	47	40	18	42	39	14	47
	13	12	33	55	14	40	46	14	29	57
	19	24	27	49	34	24	42	33	20	47
VIII	1	54	13	33	53	12	35	59	10	31
	7	30	15	55	34	18	48	35	12	53
	13	10	30	60	13	33	54	17	28	55
	19	24	26	50	32	25	43	34	19	47
IX	1	44	11	45	42	10	48	46	7	47
	7	23	14	63	26	12	62	27	8	65
	13	11	23	66	15	22	63	19	18	63
	19	27	18	55	35	15	50	30	13	57
X	1	26	6	68	26	6	68	26	5	69
	7	13	7	80	12	10	78	16	5	79
	13	11	11	78	11	15	74	13	9	78
	19	25	10	65	29	8	63	25	7	68
XI	1	15	3	82	19	5	76	21	2	77
	7	12	4	84	13	4	83	16	4	80
	13	9	7	84	13	6	81	14	7	79
	19	15	4	81	19	5	76	23	3	74
XII	1	14	3	83	15	3	82	17	2	81
	7	12	4	84	12	4	84	15	2	83
	13	9	6	85	10	6	84	11	6	83
	19	16	4	80	19	3	78	19	2	79

Months	Hours	Cloud cover (points)					
		0–2	3–7	8–10	0–2	3–7	8–10
		RYAZANSKAYA OBLAST			TUL'SKAYA OBLAST		
		247. Ряжск			263. Скуратово и Чернь		
I	1	24	4	72	20	3	77
	7	19	6	75	15	2	83
	13	14	10	76	15	6	79
	19	27	5	68	23	3	74
II	1	31	4	65	25	3	72
	7	19	8	73	15	5	80
	13	19	11	70	18	8	74
	19	29	8	63	28	5	67
III	1	36	5	59	32	5	63
	7	21	11	68	20	6	74
	13	25	14	61	25	7	68
	19	28	15	57	27	7	66
IV	1	47	9	44	45	7	48
	7	26	18	56	25	11	64
	13	16	25	59	19	16	66
	19	23	25	52	25	14	61
V	1	49	15	36	51	12	37
	7	31	26	43	36	14	50
	13	12	32	56	16	26	58
	19	24	33	43	28	21	51
VI	1	46	27	27	51	16	33
	7	33	31	36	38	20	42
	13	11	42	47	15	34	51
	19	22	38	40	32	23	45
VII	1	47	22	31	54	14	32
	7	32	29	39	38	15	47
	13	9	42	49	13	36	51
	19	22	40	38	32	24	44
VIII	1	56	17	27	55	12	33
	7	32	26	42	32	16	52
	13	12	38	50	14	30	56
	19	25	32	43	30	24	46
IX	1	47	12	41	45	10	45
	7	28	18	54	27	10	63
	13	14	27	59	16	23	61
	19	28	26	46	34	15	51
X	1	30	9	61	30	6	64
	7	15	14	71	16	6	78
	13	10	17	73	10	13	77
	19	24	12	64	25	11	64
XI	1	24	5	71	19	4	77
	7	15	7	78	15	4	81
	13	12	13	75	15	7	78
	19	25	5	70	21	5	74
XII	1	19	3	78	17	3	80
	7	15	5	80	13	4	83
	13	11	8	81	11	5	84
	19	19	4	77	18	2	80

Table 3. Recurrence of clear (0-2 points), semi-clear (3-7 points) and gray (8-10 points) sky conditions for low cloud cover at various hours of the day.

Month	Hours	Cloud cover (points)								
		0–2	3–7	8–10	0–2	3–7	8–10	0–2	3–7	8–10
		YAROSLAVSKAYA OBLAST			KALININSKAYA OBLAST					
		13. Даниловъ			51. Вышний Волочекъ			84. Торопецъ		
I	1	37	1	62	30	2	68	22	2	76
	7	32	2	66	26	2	72	16	5	79
	13	35	4	61	32	4	64	22	7	71
	19	38	2	60	32	3	65	25	5	70
II	1	42	1	57	36	2	62	30	3	67
	7	36	1	63	28	3	69	22	4	74
	13	40	5	55	40	6	54	29	7	64
	19	44	2	54	39	3	58	31	5	64
III	1	52	2	46	52	2	46	44	4	52
	7	47	1	52	42	3	55	35	6	59
	13	47	6	47	48	8	44	40	9	51
	19	52	4	44	49	6	45	42	8	50
IV	1	63	4	33	58	4	38	49	9	42
	7	58	4	38	52	5	43	45	7	48
	13	45	14	41	37	17	46	31	23	46
	19	58	11	31	49	12	39	37	21	42
V	1	63	9	28	57	9	34	52	14	34
	7	63	8	29	56	9	35	50	12	38
	13	31	24	45	27	29	44	22	30	48
	19	52	19	29	45	19	36	37	28	35
VI	1	69	7	24	56	12	32	51	17	32
	7	65	8	27	59	10	31	55	14	31
	13	29	33	38	23	36	41	13	43	44
	19	60	18	22	49	22	29	34	34	32
VII	1	66	10	24	59	13	28	53	18	29
	7	64	8	28	57	13	30	49	14	37
	13	23	36	41	22	38	40	15	43	42
	19	59	19	22	49	25	26	40	32	28
VIII	1	70	8	22	61	9	30	54	13	33
	7	64	5	31	53	9	38	44	13	43
	13	31	32	37	25	34	41	16	37	47
	19	63	16	21	50	21	29	38	29	33
IX	1	54	7	39	52	7	41	48	12	40
	7	42	7	51	39	7	54	32	9	59
	13	26	23	51	25	25	50	20	28	52
	19	51	12	37	44	15	41	37	22	41
X	1	35	4	61	34	4	62	29	8	63
	7	26	4	70	24	6	70	19	8	73
	13	22	8	70	22	10	68	18	16	66
	19	33	6	61	34	6	60	25	10	65
XI	1	28	2	70	24	2	74	17	3	80
	7	24	1	75	17	3	80	12	4	84
	13	24	4	72	19	4	77	15	5	80
	19	26	4	70	24	3	73	16	4	80

Month	Hours	Cloud cover (points)								
		0–2	3–7	8–10	0–2	3–7	8–10	0–2	3–7	8–10
XII	1	27	1	72	24	2	74	17	3	80
	7	23	2	75	20	3	77	15	3	82
	13	26	3	71	21	5	74	15	5	80
	19	29	2	69	22	1	77	16	4	80
		MOSKOVSKAYA OBLAST			VLADIMIRSKAYA OBLAST			SMOLENSKAYA OBLAST		
		121. Москва, с.-х. академия			170. Владимир			211. Смоленск		
I	1	29	2	69	36	1	63	26	5	69
	7	26	3	71	33	2	65	18	4	78
	13	30	6	64	42	3	55	23	7	70
	19	32	2	66	40	1	59	27	4	69
II	1	36	2	62	41	1	58	34	2	64
	7	28	4	68	35	2	63	24	4	72
	13	42	6	52	49	4	47	33	7	60
	19	38	2	60	46	1	53	37	4	59
III	1	46	2	52	49	1	50	48	3	49
	7	41	5	54	45	2	53	36	4	60
	13	47	8	45	55	6	39	45	8	47
	19	46	6	48	50	4	46	46	8	46
IV	1	56	6	38	63	2	35	57	6	37
	7	49	8	43	55	5	40	48	11	41
	13	40	19	41	46	18	36	32	26	42
	19	47	15	38	57	9	34	49	16	35
V	1	60	9	31	60	7	33	61	14	25
	7	55	8	37	59	10	31	57	14	29
	13	31	28	41	30	32	38	25	37	38
	19	45	21	34	55	17	28	48	28	24
VI	1	61	11	28	69	9	22	56	15	29
	7	63	11	26	70	8	22	58	15	27
	13	25	37	38	27	42	31	19	45	36
	19	52	23	25	58	20	22	47	30	23
VII	1	62	11	27	67	10	23	61	15	24
	7	61	10	29	67	9	24	57	13	30
	13	23	43	34	23	44	33	19	48	33
	19	46	29	25	60	20	20	50	30	20
VIII	1	64	8	28	70	5	25	60	10	30
	7	55	10	35	68	8	29	48	16	36
	13	24	40	36	30	40	30	18	44	38
	19	48	22	30	64	15	21	45	30	25
IX	1	51	9	40	56	4	40	53	10	37
	7	41	9	50	47	7	46	40	11	49
	13	31	22	47	31	22	47	24	31	45
	19	45	14	41	45	12	43	47	19	34
X	1	31	4	65	33	4	63	32	6	62
	7	24	6	70	29	4	67	22	8	70
	13	23	13	64	24	12	64	19	19	62
	19	33	7	60	34	5	61	32	10	58
XI	1	24	3	73	28	1	71	21	5	74
	7	21	5	74	26	2	72	18	3	79
	13	23	5	72	29	4	67	20	6	74
	19	22	4	74	29	2	69	22	4	74

Month	Hours	Cloud cover (points)								
		0–2	3–7	8–10	0–2	3–7	8–10	0–2	3–7	8–10
XII	1	22	2	76	26	1	73	20	2	78
	7	19	3	78	22	2	76	15	3	82
	13	22	4	74	26	2	72	18	6	76
	19	20	3	77	27	1	72	19	4	77
SMOLENSKAYA OBLAST					KALUZHSKAYA OBLAST			RYAZANSKAYA OBLAST		
217. Рославль					232. Жиздра			234. Елатьма		
I	1	26	1	73	26	1	73	39	1	60
	7	22	3	75	19	2	79	36	2	62
	13	27	3	70	27	4	69	42	3	55
	19	28	3	69	29	2	69	41	1	58
II	1	30	2	68	22	2	66	44	2	54
	7	25	3	72	25	1	74	37	1	62
	13	36	5	59	37	6	57	47	2	51
	19	37	2	61	38	3	59	46	1	53
III	1	46	1	53	42	2	56	52	2	46
	7	36	3	61	34	3	63	45	2	53
	13	44	7	49	40	8	52	55	4	41
	19	47	4	49	42	5	53	53	4	43
IV	1	56	5	39	52	6	42	59	4	37
	7	57	5	38	52	5	43	57	3	40
	13	38	21	41	36	17	47	48	15	37
	19	48	14	38	45	14	21	54	9	37
V	1	66	8	26	58	8	34	60	6	34
	7	67	7	26	57	10	33	63	6	31
	13	26	33	41	30	31	39	39	25	36
	19	56	19	25	49	22	29	56	13	31
VI	1	61	12	27	62	10	28	71	5	24
	7	67	8	25	66	9	25	74	5	21
	13	23	41	36	25	42	33	35	34	31
	19	55	22	23	55	18	27	64	14	22
VII	1	69	9	22	64	8	28	69	7	24
	7	67	8	25	66	8	26	69	5	26
	13	21	45	34	26	42	32	31	37	32
	19	56	22	22	58	18	24	63	14	23
VIII	1	67	8	25	63	6	31	72	5	23
	7	57	8	35	53	9	38	66	4	30
	13	23	37	40	23	27	40	35	33	32
	19	58	19	23	55	19	26	66	12	22
IX	1	63	5	32	50	8	42	57	5	38
	7	50	7	43	45	7	48	50	5	45
	13	30	30	40	24	24	52	38	20	42
	19	51	15	34	48	11	41	50	8	42
X	1	38	4	58	35	5	60	34	3	63
	7	29	5	66	25	6	69	31	3	66
	13	26	11	63	23	13	64	28	8	64
	19	36	6	58	35	8	57	34	4	62
XI	1	22	2	76	25	2	73	30	1	69
	7	21	1	78	20	1	79	26	2	72
	13	22	5	73	23	4	73	30	3	67
	19	22	2	76	25	3	72	30	2	68
XII	1	21	2	77	19	1	80	27	1	72
	7	18	2	80	17	2	81	24	1	75
	13	23	4	73	20	2	78	27	4	69
	19	25	2	73	22	2	76	26	2	72

Month	Hours	Cloud cover (points					
		0—2	3—7	8—10	0—2	3—7	8—10
		RYAZANSKAYA OBLAST			TUL'SKAYA OBLAST		
		247. Ряжск			263. Чернь и Скуратово		
I	1	38	1	61	27	2	71
	7	34	1	65	22	2	76
	13	41	3	56	27	4	69
	19	42	2	56	28	2	70
II	1	43	1	56	34	2	64
	7	36	4	60	25	3	72
	13	47	2	51	36	4	60
	19	43	2	55	37	3	60
III	1	49	1	50	40	3	57
	7	43	2	55	34	4	62
	13	54	4	42	44	4	52
	19	51	4	45	42	4	54
IV	1	61	3	36	56	4	40
	7	55	7	38	49	6	45
	13	40	21	39	38	18	44
	19	50	15	35	46	12	42
V	1	65	6	29	60	10	30
	7	66	8	26	58	9	33
	13	31	35	34	29	28	43
	19	55	22	23	51	20	29
VI	1	70	10	20	61	10	29
	7	74	6	20	62	10	28
	13	29	44	27	27	37	36
	19	55	27	18	56	17	27
VII	1	69	8	23	62	10	28
	7	73	7	20	58	10	32
	13	25	47	28	23	38	39
	19	55	29	16	54	19	27
VIII	1	75	6	19	62	10	28
	7	69	7	24	52	11	37
	13	33	39	28	27	32	41
	19	59	20	21	52	20	28
IX	1	65	3	32	53	8	39
	7	59	7	34	45	8	47
	13	35	27	38	34	22	44
	19	54	15	31	51	13	36
X	1	45	2	53	38	5	57
	7	38	4	58	28	6	66
	13	30	13	57	23	12	65
	19	38	6	56	35	7	58
XI	1	33	1	66	27	2	71
	7	28	2	70	24	4	72
	13	32	5	63	28	4	68
	19	34	1	65	29	3	68
XII	1	27	1	72	22	1	76
	7	25	1	74	19	2	79
	13	28	2	70	22	2	76
	19	26	1	73	23	2	75

Table 4. Number of clear and gray days for total and low cloud cover.

Station No.	Station	Days	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
			YAROSLAVSKAYA OBLAST													
6	Пошехонье-Володарск	Clear	Total	1.6	1.8	2.9	3.8	3.3	4.0	5.0	5.2	2.7	0.9	1.2	1.4	31
			Low Нижняя	4.0	5.7	7.7	8.5	8.7	10.5	11.2	11.1	6.0	2.9	2.6	3.6	83
		Gray	Total	20.2	15.1	14.0	10.2	9.7	7.7	8.4	7.6	12.7	18.3	21.0	22.2	167
			Нижняя	12.1	8.4	6.5	5.0	3.5	3.2	3.4	3.1	6.8	13.1	15.7	16.0	97
10	Брейтово	Clear	Total	1.7	1.5	2.6	3.1	2.9	2.3	3.2	4.3	2.2	1.4	1.0	1.7	28
			Нижняя	5.2	5.9	10.3	9.5	8.1	10.3	11.6	12.7	6.4	2.9	3.1	3.9	90
		Gray	Total	19.5	15.1	14.1	10.5	10.6	10.2	9.9	8.4	12.4	18.0	20.6	21.4	171
			Нижняя	11.0	7.3	6.0	5.1	3.3	2.4	2.6	2.1	3.9	12.6	15.0	15.1	86
12	Мыс Рожновский	Clear	Total	1.6	1.9	2.2	2.6	2.5	2.2	2.6	3.9	2.0	0.9	1.0	1.2	25
			Нижняя	5.1	5.4	8.6	7.8	8.3	9.6	9.3	10.6	5.7	2.9	3.0	3.7	80
		Gray	Total	20.2	14.9	14.2	11.8	11.2	10.9	11.0	9.8	13.9	20.6	21.9	23.0	183
			Нижняя	8.9	7.7	6.8	4.1	3.2	3.6	3.5	4.1	8.6	13.0	14.9	14.1	92
13	Данилов	Clear	Total	1.8	2.3	2.9	3.4	2.8	3.2	3.3	4.4	2.5	1.2	1.2	1.3	30
			Нижняя	5.1	5.4	8.9	9.6	8.0	9.6	10.7	11.2	7.0	3.4	3.2	3.5	85
		Gray	Total	20.2	15.6	14.7	11.2	10.4	9.3	10.1	8.8	12.6	19.4	20.7	22.8	176
			Нижняя	12.3	9.2	7.4	4.2	3.0	2.9	2.7	2.5	5.2	12.8	15.8	15.8	95
15, 18	Рыбинск	Clear	Total	1.5	1.8	2.3	2.9	2.8	2.8	2.8	3.9	1.9	0.8	1.0	1.4	26
			Нижняя	4.0	4.3	7.6	8.3	7.5	9.1	9.4	9.9	5.0	2.4	2.4	3.1	73
		Gray	Total	21.0	15.2	15.0	11.3	10.8	9.4	10.0	8.3	13.1	19.4	21.7	23.0	178
			Нижняя	12.8	9.2	7.8	5.4	5.3	3.9	3.9	4.0	7.8	14.2	17.1	16.3	108
21	Тутаев	Clear	Total	1.4	2.2	2.9	3.1	2.6	2.6	2.4	2.9	2.0	0.8	1.3	1.2	25
			Нижняя	5.7	6.1	8.7	9.4	7.6	8.0	7.5	8.5	5.6	3.1	3.4	3.6	77
		Gray	Total	21.6	15.8	15.7	11.8	11.2	9.0	10.6	10.2	14.3	20.2	21.5	23.6	186
			Нижняя	13.3	9.3	8.2	5.3	4.3	3.5	4.4	4.1	7.1	14.8	17.4	17.3	109
25	Ярославль	Clear	Total	1.2	2.4	2.8	3.6	2.9	2.8	2.6	3.4	2.3	1.3	1.2	1.4	28
			Low	4.0	4.9	7.6	8.0	7.2	8.0	8.3	9.6	5.2	2.8	2.7	2.8	71
		Gray	Total	19.6	15.0	14.2	10.2	9.9	6.0	8.9	8.2	12.0	18.2	20.4	22.4	167
			Low	13.7	9.4	8.7	5.4	4.4	3.6	3.7	4.0	7.8	13.6	16.6	18.2	109
26	Углич	Clear	Total	2.0	2.0	3.1	4.0	3.1	3.1	2.8	3.8	2.4	1.1	1.1	1.6	30
			Low	4.2	4.0	7.6	8.4	8.5	9.8	10.2	10.6	5.1	2.9	2.6	3.0	77
		Gray	Total	19.9	15.4	14.6	10.0	9.9	7.9	8.3	8.0	12.9	18.2	20.9	22.2	168
			Low	15.1	9.6	8.7	5.1	3.9	3.0	3.4	3.9	7.3	13.6	17.6	18.6	110
31	Ростов	Clear	Total	1.6	2.1	3.2	3.8	3.1	4.0	3.6	4.6	2.8	1.6	1.8	1.5	33
			Low	5.1	5.5	8.8	10.1	9.4	11.2	11.7	11.5	7.0	4.2	3.6	3.2	91
		Gray	Total	18.1	14.5	13.6	9.5	9.6	7.7	7.3	7.0	11.1	17.3	19.8	21.0	156
			Low	10.1	7.5	6.1	4.2	3.4	2.2	2.4	2.7	5.0	11.4	14.7	14.2	84
33	Переславль-Залесский	Clear	Total	1.7	2.1	2.8	3.3	2.5	2.7	2.4	2.8	2.8	1.5	1.6	1.3	28
			Low	4.7	5.9	8.2	9.1	9.1	9.7	9.8	9.8	7.0	4.1	3.1	3.3	84
		Gray	Total	19.8	15.2	14.8	10.7	10.6	8.8	9.2	9.0	13.1	17.7	20.8	23.0	173
			Low	13.8	8.5	8.1	4.2	4.2	2.9	2.8	3.0	6.0	12.3	17.1	17.3	100
			KALININSKAYA OBLAST													
36	Кесьма	Clear	Total	1.5	2.1	3.0	2.9	2.3	1.9	2.0	2.5	1.6	1.0	1.4	1.3	24
			Low	4.5	5.4	9.8	8.9	7.5	7.6	6.9	7.1	4.7	3.3	3.2	3.5	72
		Gray	Total	19.7	15.9	13.5	11.6	11.7	11.4	11.1	10.7	14.6	19.3	21.5	23.9	185
			Low	11.7	9.0	5.7	4.5	4.0	4.8	4.3	4.7	7.1	13.5	15.6	16.9	102
42	Болотое	Clear	Total	1.4	1.6	3.4	3.6	3.5	2.8	2.9	3.6	2.3	1.1	1.0	1.4	29
			Low	2.7	2.9	7.0	8.5	7.9	7.7	9.3	8.4	5.1	2.8	1.7	2.4	65
		Gray	Total	21.3	16.8	13.9	11.2	11.2	8.9	8.8	9.8	13.2	18.4	21.9	23.4	179
			Low	16.5	12.0	9.0	5.3	5.0	4.0	2.9	4.8	7.3	14.3	19.1	20.1	120
46	Бежецк	Clear	Total	1.9	2.0	3.6	3.7	3.4	2.9	2.4	3.6	2.1	1.3	1.5	1.5	30
			Low	4.0	4.3	9.5	9.2	8.3	8.5	8.1	9.7	5.7	3.1	2.6	3.2	76
		Gray	Total	18.9	15.4	13.4	9.8	9.2	8.4	9.2	8.3	12.1	18.0	20.2	22.9	166
			Low	12.0	8.5	6.0	4.4	4.0	3.3	3.3	3.6	6.2	12.3	15.9	15.9	95
51	Вышний Волочек	Clear	Total	1.3	1.6	3.0	3.8	3.7	2.9	2.8	3.2	2.1	1.3	1.2	1.4	28
			Low	3.6	3.7	8.1	8.4	7.6	7.5	8.0	8.5	5.4	3.0	2.4	2.6	69

Station No.	Station	Days	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
51	Вышний Волочек	Gray	Total	19.7	16.3	13.3	10.9	9.8	8.6	8.6	9.4	12.1	17.3	21.1	22.4	170
			Low	13.4	9.8	7.4	6.0	4.7	4.2	3.1	4.2	6.7	13.0	17.3	18.1	108
55	Кашин	Clear	Total	1.5	1.9	2.5	2.9	2.3	2.1	2.2	3.5	1.9	0.9	1.2	1.5	24
			Low	3.2	4.8	7.8	7.6	7.1	7.2	8.0	8.0	4.8	2.4	2.8	2.7	66
		Gray	Total	20.0	15.7	15.3	12.1	11.9	10.2	10.3	10.3	14.5	19.0	21.9	23.3	184
			Low	14.2	9.8	8.6	5.3	5.0	4.1	3.8	4.9	8.2	14.0	17.7	19.0	115
59	Осташков	Clear	Total	1.4	1.4	2.5	3.1	3.3	2.2	2.9	3.2	2.2	1.3	1.1	1.3	26
			Low	3.0	3.4	7.2	8.3	8.2	9.2	9.5	8.9	5.9	3.3	2.2	2.1	72
		Gray	Total	20.8	16.9	14.5	11.6	10.2	10.2	9.8	9.4	13.5	18.7	22.3	23.5	181
			Low	15.1	12.0	9.8	6.1	4.1	3.4	3.1	4.0	7.6	13.9	18.9	19.9	118
73	Калинин	Clear	Total	1.1	1.4	2.8	3.6	2.5	2.1	2.1	2.7	2.2	1.5	1.3	1.4	25
			Low	2.5	2.7	6.9	7.2	5.7	5.8	4.8	5.6	4.1	3.0	2.5	2.4	53
		Gray	Total	21.1	16.6	14.7	11.9	10.9	10.0	9.6	10.2	13.2	18.5	20.7	23.0	180
			Low	17.5	12.7	9.9	6.9	6.3	5.2	5.3	5.6	9.3	15.0	18.4	20.2	132
82	Старица	Clear	Total	1.4	1.6	3.3	3.6	3.8	3.1	3.3	3.4	2.9	1.4	1.3	1.1	30
			Low	3.9	5.0	8.6	9.4	9.4	10.4	10.7	8.1	6.2	4.0	2.6	3.3	82
		Gray	Total	21.0	15.7	13.8	10.6	9.3	8.1	7.3	8.7	11.5	17.4	20.6	22.0	166
			Low	12.4	8.2	7.2	4.7	3.3	2.8	2.5	3.8	6.1	11.6	15.7	16.4	95
83	Тургиново	Clear	Total	1.4	1.5	2.3	3.3	2.6	2.2	2.2	2.4	2.1	1.1	1.3	1.3	24
			Low	4.0	4.9	8.3	9.0	8.5	8.6	8.5	8.0	6.2	3.9	3.3	3.3	76
		Gray	Total	21.6	16.4	15.0	12.1	10.8	10.4	9.3	10.6	13.9	18.7	21.0	23.0	183
			Low	13.5	10.0	7.2	3.4	3.6	2.8	2.6	4.1	6.8	12.8	16.0	16.7	100
84	Торопец	Clear	Total	1.2	1.4	2.2	2.3	2.7	1.1	1.2	1.6	1.5	0.6	0.6	1.2	18
			Low	2.7	3.2	6.1	6.4	6.0	4.9	5.4	5.1	4.5	2.5	1.6	2.1	50
		Gray	Total	23.0	18.1	16.1	13.8	11.8	10.9	11.2	12.3	14.5	20.0	23.0	24.7	199
			Low	16.8	13.0	10.6	7.3	5.1	4.7	4.4	6.0	8.7	15.8	20.0	21.5	134
86	Западная Двина	Clear	Total	1.7	1.1	[illegible]	2.9	2.4	1.4	1.9	2.7	2.0	1.2	1.0	1.3	22
			Low	3.1	2.9	[illegible]	7.4	7.3	6.0	7.0	7.0	6.2	3.3	1.8	2.4	62
		Gray	Total	21.4	17.7	15.0	13.2	10.8	9.5	9.7	10.5	11.9	18.6	22.0	23.8	184
			Low	15.7	12.9	9.7	6.4	4.8	3.5	3.9	4.4	6.8	14.1	19.2	20.4	122
94	Белый	Clear	Total	1.6	1.7	3.6	3.7	3.6	2.8	3.0	2.6	2.4	1.5	1.4	1.5	29
			Low	2.7	3.8	7.4	7.9	7.8	7.0	8.1	7.2	6.1	3.6	2.4	2.8	67
		Gray	Total	21.6	16.2	13.7	11.3	9.5	8.7	8.6	10.3	12.6	17.7	22.0	23.8	175
			Low	11.0	10.1	8.0	5.0	4.4	3.0	2.5	1.3	6.5	13.6	17.6	18.0	108
								MOSKOVSKAYA OBLAST								
103	Дмитров	Clear	Total	1.4	2.2	3.2	3.9	3.0	2.3	2.6	1.9	2.6	1.1	1.8	1.2	27
			Low	3.2	4.1	7.4	8.2	6.6	7.2	7.0	6.9	5.0	3.2	3.4	2.6	65
		Gray	Total	19.2	15.0	13.8	11.4	11.4	8.7	9.0	9.3	13.4	18.2	20.0	22.2	172
			Low	14.5	10.4	9.5	6.0	5.7	4.1	3.8	4.8	8.2	14.4	17.1	19.2	118
104	Загорск	Clear	Total	1.6	2.2	2.9	3.3	2.6	2.6	2.2	2.0	2.4	1.2	1.4	0.9	25
			Low	3.6	5.0	7.2	8.1	8.0	8.2	8.5	7.0	5.4	3.2	3.6	2.6	70
		Gray	Total	20.8	15.4	14.6	11.6	11.4	9.6	9.5	10.2	13.5	18.6	20.4	23.9	180
			Low	14.2	10.2	10.0	5.5	5.6	3.7	3.7	5.0	8.2	14.2	15.6	18.6	114
110	Волоколамск	Clear	Total	1.6	1.3	3.2	3.5	3.4	2.7	3.2	3.1	2.5	1.2	1.6	1.2	28
			Low	3.2	3.9	7.0	8.6	7.2	8.0	8.2	7.9	5.5	3.1	2.7	2.6	68
		Gray	Total	20.5	17.0	15.2	11.9	10.0	8.7	8.7	8.7	12.3	18.0	21.0	22.6	175
			Low	15.1	11.0	9.2	6.1	4.5	3.8	4.0	4.1	7.4	13.5	17.7	19.2	116
117	Починки	Clear	Total	2.0	2.3	2.8	2.8	2.4	2.5	2.0	2.5	2.6	1.5	1.6	1.3	26
			Low	5.1	6.9	8.4	8.8	8.8	9.1	8.1	8.8	7.5	4.8	3.8	3.2	83
		Gray	Total	17.8	14.2	15.4	12.5	11.7	9.6	10.5	9.4	12.4	17.1	20.1	22.2	173
			Low	10.0	7.5	7.3	4.6	3.8	2.7	3.5	2.9	6.1	10.7	15.1	15.5	90
118	Ново-Иерусалим	Clear	Total	1.4	1.9	2.8	3.3	3.4	3.4	3.0	3.7	3.0	1.5	1.5	1.2	30
			Low	3.5	3.3	6.9	8.0	7.7	6.7	7.6	8.6	6.2	3.7	3.0	2.6	68
		Gray	Total	20.0	16.4	15.0	11.6	10.4	8.1	7.7	8.8	12.4	17.9	21.0	22.8	172
			Low	15.5	11.7	9.9	5.3	5.0	3.8	3.6	4.3	8.0	13.5	17.3	18.6	117
121	Москва, с-х академия	Clear	Total	1.2	1.6	2.7	3.0	3.6	2.8	2.6	2.7	3.0	1.2	1.5	1.2	27
			Low	3.5	4.6	7.4	7.8	8.1	8.2	8.8	8.1	6.3	3.2	3.0	3.1	72
		Gray	Total	19.5	16.7	14.3	11.5	10.0	8.0	7.5	8.8	11.7	18.3	20.9	23.4	171
			Low	14.1	10.4	8.9	5.2	5.1	3.1	3.6	4.2	6.7	13.4	16.9	19.0	111

Station No.	Station	Days	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
124	Москва, ВДНХ	Clear	Total	1.1	1.6	3.0	2.5	3.4	2.2	2.2	1.9	2.5	0.8	1.9	1.3	24
			Low	4.3	4.5	6.5	8.8	7.7	8.0	7.6	7.3	5.8	3.4	4.0	3.1	74
		Gray	Total	20.6	16.3	14.6	13.2	12.5	9.3	9.2	10.3	14.0	18.7	19.2	23.1	181
			Low	13.1	9.3	8.5	5.9	5.0	2.6	3.4	4.0	6.1	13.8	15.6	17.4	105
140	Собянино	Clear	Total	1.1	2.1	2.6	2.2	2.9	2.8	2.5	3.8	3.4	1.4	1.4	1.5	28
			Low	4.5	4.4	8.4	8.5	8.9	8.4	8.4	8.6	6.5	4.5	4.0	3.3	78
		Gray	Total	20.7	15.9	14.7	12.3	10.3	7.8	7.2	8.5	12.3	17.9	20.2	23.0	171
			Low	12.6	8.3	8.1	5.3	4.4	3.3	2.8	3.6	5.5	11.7	15.6	17.6	99
142	Куровское	Gray	Total	2.0	2.4	3.2	3.0	3.5	3.4	3.4	4.4	3.3	1.7	1.9	1.6	34
			Low	4.8	5.8	8.6	8.7	9.4	10.6	10.2	11.0	7.9	4.3	3.6	3.0	88
		Gray	Total	18.2	14.5	14.2	10.4	10.0	7.8	7.4	7.7	10.4	17.1	19.6	21.2	158
			Low	11.5	8.6	7.6	4.5	3.8	1.9	2.2	2.8	5.7	11.8	15.0	16.3	92
145	Черусти	Clear	Total	2.5	3.2	3.6	3.7	3.7	3.3	3.4	3.9	3.6	2.1	2.1	1.9	37
			Low	6.0	6.7	9.5	8.9	9.4	9.6	10.5	10.6	8.2	4.6	4.5	4.0	92
		Gray	Total	17.4	14.2	12.8	9.6	9.3	7.2	7.3	6.3	9.7	15.6	18.6	20.8	149
			Low	11.0	8.5	7.0	4.4	4.0	2.4	3.0	2.7	5.9	11.4	13.3	15.0	89
146	Можайск	Clear	Total	1.3	1.2	3.0	3.6	3.2	2.8	3.2	3.4	2.8	1.5	1.7	1.2	29
			Low	3.3	4.4	7.5	8.3	7.4	7.2	7.5	7.3	5.5	4.0	3.5	2.3	68
		Gray	Total	20.3	16.8	14.9	12.1	10.8	9.2	8.5	9.1	12.0	17.4	21.0	22.4	174
			Low	14.8	11.0	9.0	6.1	5.6	3.5	3.9	4.1	7.0	13.3	16.8	19.0	114
156	Коломна	Clear	Total	1.8	2.4	3.3	3.8	3.5	2.9	3.5	4.2	3.2	1.9	2.1	1.9	34
			Low	4.4	5.9	8.8	8.2	8.4	8.4	8.4	9.4	6.5	3.8	3.6	4.0	80
		Gray	Total	17.7	14.6	14.0	10.6	9.8	[illegible]	7.6	7.6	10.2	16.4	19.3	21.4	157
			Low	11.5	8.9	7.3	5.0	4.6	3.2	3.4	4.0	5.8	12.6	14.9	15.3	96
157	Михнево	Clear	Total	1.8	1.9	2.5	2.6	2.9	2.5	2.8	3.2	3.0	1.4	1.5	1.5	28
			Low	4.2	4.6	7.4	8.2	9.4	10.4	10.8	10.9	7.5	4.0	3.2	3.1	84
		Gray	Total	19.0	15.6	15.8	11.8	10.2	8.0	7.6	8.0	10.9	17.5	20.3	22.3	166
			Low	13.3	10.5	9.4	5.3	3.5	2.1	2.2	2.8	5.4	13.1	16.8	18.9	103
163	Кашира	Clear	Total	1.7	2.5	3.6	4.5	4.3	4.0	4.0	4.8	4.2	2.0	1.9	1.8	39
			Low	3.8	5.6	7.4	8.3	9.4	10.6	10.9	11.4	8.8	4.7	3.5	3.1	88
		Gray	Общая	17.8	14.0	14.1	10.4	8.2	6.2	5.8	6.1	9.5	16.0	18.8	21.1	148
			Low	13.3	8.7	8.9	5.0	2.9	2.1	1.7	2.3	4.8	11.4	16.1	16.8	94
			VLADIMIRSKAYA OBLAST													
168	Александров	Clear	Total	1.5	2.0	2.5	2.5	2.4	2.0	2.3	2.6	2.5	1.4	1.4	1.3	24
			Low	4.8	5.0	8.1	8.5	7.2	7.3	7.1	8.1	6.2	3.1	3.3	3.2	72
		Gray	Total	20.4	16.4	15.6	13.3	12.1	9.6	9.9	10.1	13.6	19.5	21.2	23.6	185
			Low	13.5	10.4	8.9	5.6	4.6	3.2	3.4	3.8	7.4	13.4	16.8	17.8	109
171	Вязники	Clear	Total	1.8	3.0	3.1	3.8	3.7	4.6	4.0	4.6	2.9	1.6	1.7	2.1	37
			Low	4.3	6.0	9.4	11.3	11.5	14.2	12.5	12.6	8.8	4.7	4.3	4.0	104
		Gray	Total	19.9	15.1	14.1	9.7	9.5	6.8	7.3	6.2	10.6	17.6	19.2	21.6	158
			Low	11.0	7.9	7.2	3.4	2.5	1.1	2.0	1.8	5.2	11.4	14.1	16.9	84
176	Владимир	Clear	Total	2.4	2.4	4.0	3.8	3.2	3.3	3.4	4.1	3.3	1.8	1.9	1.7	35
			Low	5.0	5.6	8.3	9.9	8.9	11.1	10.7	11.6	6.9	3.5	3.9	3.0	88
		Gray	Total	17.6	14.0	13.8	9.6	8.7	7.2	7.4	6.9	11.2	17.2	19.4	21.4	154
			Low	11.6	8.4	7.4	4.0	3.8	2.6	2.7	2.4	6.2	12.8	15.1	16.6	94
180	Селивановское оп. поле	Clear	Total	2.1	2.7	3.4	3.5	3.0	3.2	3.7	3.2	3.2	2.6	2.0	2.0	34
			Low	4.8	5.8	8.6	8.8	7.8	9.2	8.3	8.0	5.9	3.2	4.4	3.4	78
		Gray	Total	19.1	14.7	13.5	9.8	9.2	6.8	7.5	6.4	11.0	17.7	18.7	21.8	156
			Low	13.2	8.8	7.2	5.2	3.0	3.2	4.0	3.4	7.2	14.5	14.5	16.9	103
185	Гусь-Хрустальный	Clear	Total	2.1	3.3	3.6	4.0	3.5	3.8	3.7	4.4	3.4	1.5	2.6	1.8	38
			Low	4.7	5.2	8.1	8.7	9.6	9.7	9.3	10.4	8.0	3.7	4.3	2.9	85
		Gray	Total	18.8	15.0	13.0	10.6	10.5	7.0	7.0	6.5	10.2	17.5	18.5	21.7	156
			Low	13.3	10.0	8.0	5.0	4.0	2.3	2.9	3.0	5.9	12.6	14.9	17.0	99
186	Муром	Clear	Total	2.1	2.6	3.4	4.1	4.8	5.2	5.5	5.6	4.4	2.3	2.4	2.3	45
			Low	4.9	5.5	8.1	9.4	10.0	11.8	11.0	11.7	8.1	4.4	3.9	3.6	92
		Gray	Total	18.4	13.9	13.2	9.1	9.4	6.6	6.9	6.3	10.4	16.8	18.4	21.6	151
			Low	12.9	8.8	7.1	4.3	3.2	2.4	2.2	2.6	5.8	13.0	14.4	17.3	94

Station No.	Station	Days	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
								SMOLENSKAYA OBLAST								
194	Велиж	Clear	Total	1.5	1.3	3.0	2.6	3.6	3.3	3.0	3.4	2.6	0.9	1.0	1.3	28
			Low	2.3	2.1	6.2	6.4	6.7	6.7	7.2	7.1	4.7	2.2	1.3	2.1	55
		Gray	Total	21.2	17.0	14.2	12.0	9.7	8.7	8.5	10.0	12.1	18.0	22.0	23.2	177
			Low	18.5	13.4	10.6	7.8	5.8	4.4	4.4	5.3	6.0	14.9	19.8	19.7	133
195	Гжатск	Clear	Total	1.1	1.6	3.2	4.2	4.2	3.8	3.6	4.3	3.3	1.5	1.8	1.3	34
			Low	2.8	4.0	7.2	9.2	8.5	9.7	8.7	8.8	6.3	3.6	3.0	2.7	74
		Gray	Total	20.2	16.5	14.1	10.6	9.0	7.4	7.3	7.5	12.0	17.2	21.0	22.4	165
			Low	14.8	10.4	9.1	4.8	4.6	3.4	3.5	3.6	7.2	13.1	16.9	18.6	110
196	Ново Пречистое	Clear	Total	1.7	1.2	3.4	3.1	2.3	2.3	1.5	2.4	2.0	0.9	0.9	1.0	23
			Low	2.4	3.0	8.1	7.8	7.7	8.0	7.9	8.8	6.3	2.6	2.3	3.1	68
		Gray	Total	21.3	17.6	14.9	12.3	9.7	8.7	8.1	10.9	13.5	18.4	21.9	22.8	180
			Low	16.7	12.1	9.9	5.6	3.1	3.0	2.8	3.3	6.5	13.1	17.9	18.0	112
198	Демидов	Clear	Total	1.7	1.1	2.7	3.1	3.2	2.7	2.6	3.3	2.6	1.2	1.0	1.2	27
			Low	3.5	3.6	7.0	8.3	8.3	9.5	9.9	9.2	6.8	3.3	2.5	3.0	75
		Gray	Total	20.1	16.4	14.9	11.2	9.3	7.9	8.3	9.0	11.1	17.5	20.8	21.9	168
			Low	12.9	10.6	8.8	5.7	3.5	2.7	2.7	3.9	5.4	11.8	17.0	16.8	102
199	Вязьма	Clear	Total	1.1	1.3	2.4	3.1	3.1	2.1	2.5	2.9	2.6	1.7	1.3	0.9	25
			Low	2.6	3.9	6.6	9.0	9.6	10.2	9.9	9.7	7.5	3.7	3.0	2.8	78
		Gray	Total	22.0	17.7	16.2	12.5	10.3	10.6	11.1	10.7	12.9	18.8	21.7	23.0	188
			Low	16.9	11.2	9.4	4.7	3.1	1.9	2.1	3.0	5.5	13.8	17.9	19.4	109
203	Сафоново	Clear	Total	1.7	1.2	2.7	3.2	3.7	2.7	3.0	3.1	2.2	1.6	1.6	1.3	28
			Low	2.8	3.2	7.0	8.1	8.4	8.5	8.3	9.3	7.2	3.7	2.9	3.0	72
		Gray	Total	21.4	16.9	15.0	11.6	9.6	9.0	8.4	9.5	11.0	18.4	21.8	22.6	175
			Low	15.5	11.6	9.8	5.8	4.1	2.5	3.3	4.1	5.4	13.2	17.9	19.3	112
205	Темкино	Clear	Total	1.2	1.6	3.1	3.6	3.8	2.9	3.4	3.7	3.4	1.7	1.5	1.4	31
			Low	3.8	5.4	8.6	10.2	11.0	11.1	11.2	10.7	8.2	4.6	3.6	3.6	92
		Gray	Total	21.0	15.9	15.1	10.7	8.3	7.0	7.0	7.3	10.9	17.1	20.9	21.9	163
			Low	13.7	9.3	7.7	3.5	3.0	1.6	2.4	2.8	5.4	11.1	15.5	15.5	92
206	Шокино	Clear	Total	1.5	1.4	3.3	3.1	4.0	3.0	3.1	3.5	2.8	1.3	1.2	1.3	30
			Low	3.5	4.1	8.3	9.7	9.8	8.9	10.0	9.6	8.0	4.4	3.1	3.0	8.2
		Gray	Total	21.4	17.2	15.0	11.4	9.6	9.3	8.5	10.0	11.3	17.7	21.9	22.2	176
			Low	14.4	9.9	8.5	5.0	2.0	1.8	2.3	3.6	4.4	10.7	17.4	17.6	98
211	Смоленск	Clear	Total	1.5	1.4	3.1	3.0	2.9	2.4	2.4	3.0	2.7	1.7	1.0	1.2	26
			Low	2.7	3.7	7.2	7.5	8.4	7.3	8.6	7.5	6.9	3.6	2.3	2.3	68
		Gray	Total	21.1	17.0	14.8	11.3	8.7	7.6	7.9	8.6	10.2	17.6	21.4	22.4	169
			Low	16.6	11.8	9.5	6.0	3.5	2.8	2.9	3.9	5.5	12.4	18.5	20.4	114
212	Ельня	Clear	Total	1.7	1.9	3.8	3.6	4.1	3.0	3.6	3.6	3.7	2.1	1.4	1.1	34
			Low	3.0	4.2	7.8	9.0	10.9	9.3	10.9	10.5	7.8	4.3	2.7	8	83
		Gray	Total	19.4	16.2	14.4	10.8	7.8	7.2	6.9	8.5	10.4	17.0	21.0	21.5	161
			Low	14.0	9.8	8.6	4.7	3.1	2.1	2.4	3.1	5.1	11.9	17.3	17.2	99
213	Починок	Clear	Total	2.4	1.9	4.1	3.3	3.3	2.8	2.7	3.2	3.3	1.8	1.3	1.2	31
			Low	3.1	4.1	9.0	9.2	9.6	9.0	8.7	9.3	7.5	4.4	3.1	2.8	80
		Gray	Total	19.4	16.1	14.0	10.7	7.6	7.5	6.7	8.2	9.4	16.5	20.3	21.7	158
			Low	12.6	9.5	7.1	4.7	3.5	2.7	2.7	3.9	5.2	10.7	15.6	15.6	94
217	Рославль	Clear	Total	1.7	1.8	3.2	3.0	3.7	2.3	2.8	3.0	3.1	1.9	1.5	1.1	29
			Low	3.0	3.8	6.7	8.0	9.3	8.4	9.1	9.0	8.3	3.6	2.5	2.5	74
		Gray	Total	20.4	16.7	15.7	11.3	8.5	8.5	7.7	8.0	10.2	16.5	21.1	21.7	166
			Low	16.0	11.4	9.2	5.1	2.7	2.1	2.2	2.7	5.0	11.0	18.1	18.3	104
								KALUZHSKAYA OBLAST								
219	Малоярославец	Clear	Total	1.5	1.7	3.8	3.7	4.0	3.9	4.3	4.3	3.5	2.0	1.7	1.4	36
			Low	4.2	5.7	8.3	9.4	9.1	10.4	10.3	10.8	7.6	4.5	3.4	3.0	87
		Gray	Total	19.6	15.8	14.0	10.8	8.7	6.3	7.0	7.1	10.2	15.4	19.7	22.0	157
			Low	13.7	10.2	8.3	5.0	4.0	2.4	3.1	2.7	5.5	11.0	15.6	17.2	99
224	Мосальск	Clear	Total	1.0	1.6	3.3	3.2	4.0	3.0	3.9	3.1	3.4	2.1	1.7	1.2	32
			Low	2.8	4.2	7.7	10.3	10.2	11.0	11.0	11.0	8.7	4.6	3.4	3.3	88
		Gray	Total	20.9	16.1	14.6	11.2	8.6	7.7	7.9	7.9	10.4	16.2	20.2	22.2	164
			Low	14.0	10.1	8.7	3.9	3.0	1.8	3.0	3.0	4.4	10.5	15.7	17.6	96

Station No.	Station	Days	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
225	Калуга	Clear	Total	1.4	1.8	3.5	3.4	4.5	4.0	4.6	4.4	3.8	2.0	2.0	1.4	37
			Low	3.2	4.3	6.8	8.0	8.9	9.4	8.9	9.3	6.6	4.1	2.9	2.8	73
		Gray	Total	19.8	16.0	14.7	11.4	9.1	8.0	7.0	8.0	10.3	15.7	20.0	21.6	162
			Low	14.8	11.3	9.5	6.0	4.5	4.0	4.3	4.0	6.5	12.5	17.7	18.3	113
226	Спас-Деменск	Clear	Total	1.6	1.9	2.9	5.6	4.0	3.6	3.5	3.7	3.4	1.8	1.3	1.2	32
			Low	2.8	3.3	6.4	7.0	8.1	8.2	7.4	7.7	6.1	3.5	2.5	2.2	66
		Gray	Total	21.3	16.1	15.0	11.1	8.4	7.6	7.6	8.4	10.5	16.8	21.3	22.6	167
			Low	16.2	11.9	9.8	5.5	4.5	3.1	3.4	3.8	6.6	13.3	18.7	19.6	116
228	Сухиничи	Clear	Total	1.8	2.0	4.1	3.6	3.8	3.4	4.0	4.0	3.3	2.0	2.1	1.5	36
			Low	4.1	5.2	8.7	8.9	9.7	9.3	10.0	9.0	7.0	4.2	3.8	3.6	84
		Gray	Total	19.6	15.4	14.1	9.8	7.7	6.9	7.6	6.7	8.8	15.7	19.9	20.9	153
			Low	10.7	7.8	6.4	4.2	2.8	2.6	2.5	3.6	5.0	12.2	16.1	14.7	89
232	Жиздра	Clear	Total	2.0	2.1	4.1	4.2	5.0	3.6	5.1	4.3	4.0	2.0	1.8	1.2	39
			Low	2.6	3.9	7.0	7.8	9.0	9.4	10.2	9.8	6.8	3.9	3.4	2.9	77
		Gray	Total	19.8	15.4	13.8	10.4	8.2	6.6	6.7	6.5	10.3	15.4	19.6	21.4	154
			Low	16.3	12.1	10.0	6.1	4.7	2.9	3.8	3.9	6.6	12.4	17.0	19.5	115
				RYAZANSKYAY OBLAST												
233	Тума	Clear	Total	2.2	2.6	3.1	3.2	3.1	3.2	2.9	3.4	3.1	1.9	1.9	1.6	32
			Low	4.6	5.2	7.7	7.8	8.1	9.1	8.0	8.6	6.9	3.9	3.8	3.3	77
		Gray	Total	18.2	14.6	14.0	10.5	10.3	7.2	7.4	7.4	11.0	17.2	19.0	21.1	158
			Low	13.4	10.1	8.6	5.5	5.0	2.7	3.9	3.4	6.1	13.2	15.2	14.0	104
234	Елатьма	Clear	Total	2.4	2.9	3.6	3.7	4.5	4.7	4.5	4.4	3.8	2.1	2.2	2.2	41
			Low	5.8	6.4	9.0	9.2	10.1	11.9	12.2	12.0	7.7	4.6	4.1	3.8	97
		Gray	Total	17.6	14.4	13.7	10.0	9.3	6.4	7.0	6.7	10.1	17.0	18.7	21.4	152
			Low	11.3	9.1	7.2	4.5	3.4	2.1	3.1	2.4	5.2	12.5	15.0	16.8	93
237	Рязань	Clear	Total	2.0	2.3	3.3	3.2	3.6	3.3	4.2	4.2	3.7	2.0	1.9	1.8	36
			Low	3.8	4.9	7.2	8.1	9.2	10.0	10.2	10.0	8.6	4.6	3.8	3.0	83
		Gray	Total	17.7	14.9	14.0	10.8	10.0	7.6	7.7	7.0	10.4	17.2	18.6	20.7	157
			Low	12.4	9.5	8.3	5.3	4.4	2.9	2.6	2.7	5.1	13.3	15.1	16.8	98
239	Сасово	Clear	Total	2.6	3.0	4.0	3.8	4.1	4.0	4.0	4.7	3.8	2.0	2.3	2.0	40
			Low	5.3	6.0	9.0	8.3	10.0	11.2	9.7	10.1	8.5	4.8	4.2	4.2	92
		Gray	Total	17.5	14.6	13.6	9.6	8.4	5.7	6.8	6.6	10.0	15.8	18.2	21.0	148
			Low	11.5	8.4	7.0	4.2	3.6	2.0	2.4	2.6	4.8	10.6	14.0	16.0	87
240	Шилово	Clear	Total	2.4	2.2	3.8	3.8	4.0	5.1	4.6	5.8	4.5	2.3	2.2	2.3	44
			Low	6.3	6.6	9.2	9.7	11.0	13.4	13.2	12.9	8.6	5.0	4.7	3.8	104
		Gray	Total	17.1	14.0	13.2	10.2	8.8	5.7	6.5	6.1	9.3	16.1	17.6	20.4	145
			Low	8.5	6.0	5.3	3.8	2.9	1.3	1.6	1.8	3.2	9.6	11.5	13.4	69
242	Михайлов	Clear	Total	2.2	2.4	3.4	3.6	4.4	4.1	4.2	5.4	4.2	2.2	2.2	2.0	40
			Low	4.7	5.8	8.2	9.8	11.3	13.4	13.1	13.7	9.8	5.6	4.6	3.6	104
		Gray	Total	17.6	14.6	13.9	10.7	9.1	5.6	6.3	7.0	9.2	15.4	17.7	21.4	148
			Low	11.0	8.2	7.0	4.4	3.4	1.5	1.7	1.8	3.4	10.4	13.1	16.3	82
246	Шацк	Clear	Total	2.2	2.2	3.7	3.3	3.0	3.4	2.8	4.0	4.0	2.1	2.3	1.9	35
			Low	6.2	6.5	9.2	9.3	8.3	10.5	9.4	10.7	9.4	5.3	6.5	5.3	97
		Gray	Total	18.1	15.5	14.4	11.0	9.3	6.9	8.1	7.8	9.9	16.0	18.0	20.8	156
			Low	10.6	8.9	7.0	4.8	3.8	2.0	2.8	2.2	4.4	9.7	12.4	14.6	83
246	Павелец	Clear	Total	2.0	2.3	3.3	3.1	4.2	3.3	4.0	4.0	4.0	2.4	2.5	1.6	37
			Low	6.0	6.6	8.9	10.0	12.3	11.6	12.7	13.2	10.7	6.1	4.9	3.7	107
		Gray	Total	17.9	15.2	14.1	10.8	8.8	6.6	7.3	7.2	9.1	15.7	18.0	21.1	152
			Low	9.3	7.2	5.5	4.3	2.3	1.3	1.8	1.4	2.6	9.3	12.0	13.9	71
247	Ряжск	Clear	Total	2.5	2.7	4.0	3.4	4.4	3.2	3.5	4.0	4.7	2.3	2.6	2.0	39
			Low	5.3	5.6	7.7	8.9	11.0	11.0	11.2	12.4	9.5	3.9	4.7	3.6	97
		Gray	Total	16.4	13.3	12.9	9.1	7.4	4.7	5.9	5.3	7.9	15.1	17.3	20.6	136
			Low	10.6	9.2	7.2	4.8	3.0	1.6	1.8	1.4	3.5	10.2	13.4	16.3	83
				TUL'SKAYA OBLAST												
255	Тула	Clear	Total	1.3	1.5	3.5	3.2	3.6	2.8	3.0	3.4	3.2	1.8	2.2	1.6	31
			Low	2.8	3.7	7.0	8.2	8.5	8.2	7.9	8.9	6.9	4.2	3.5	2.9	73
		Gray	Total	19.2	15.9	14.5	11.0	8.7	6.1	6.8	7.2	10.2	16.5	19.8	22.6	158
			Low	14.4	11.1	9.8	5.8	4.2	2.5	3.0	3.3	5.4	11.6	15.8	18.0	105
259	Белев	Clear	Total	1.6	1.7	3.6	3.0	3.7	2.7	4.2	3.4	3.8	2.2	1.3	1.6	33
			Low	4.0	4.6	7.9	8.9	10.1	10.0	10.2	10.5	8.0	4.8	3.3	3.6	86
		Gray	Total	19.2	15.9	14.6	11.8	9.5	7.3	8.1	8.0	9.9	16.3	19.8	21.5	162
			Low	13.7	10.2	8.0	5.0	3.3	2.4	2.7	2.8	4.6	11.5	15.6	16.6	96

Station No.	Station	Days	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
262	Волово	Clear Ясные	Общая Total	2.2	2.4	4.0	3.2	4.7	3.7	3.6	5.0	4.4	2.7	2.2	1.9	40
			Нижняя Low	4.3	5.5	7.2	8.7	10.3	10.0	10.0	10.5	9.9	5.9	3.7	3.3	69
		Gray Пасмурные	Общая	17.6	14.4	13.6	10.6	8.0	5.9	6.3	6.2	8.8	15.5	19.1	21.0	147
			Нижняя	12.9	10.3	8.2	5.1	2.9	2.0	2.6	2.0	4.2	11.5	15.8	18.0	96
263	Черный and Скуратово	Ясные	Общая	1.6	1.9	3.0	3.1	4.4	4.1	4.7	4.0	4.1	2.3	2.1	1.3	37
			Нижняя	2.6	3.5	5.7	7.4	8.8	8.8	8.4	6.8	6.6	4.2	3.2	2.4	66
		Пасмурные	Общая	18.8	15.7	14.7	11.2	8.3	6.6	6.8	7.0	9.6	15.9	19.4	21.4	155
			Нижняя	16.0	12.1	10.7	5.8	4.0	2.7	3.7	4.0	6.3	13.5	16.0	19.8	115
265	Ефремов	Ясные	Общая	2.0	2.5	3.6	3.2	5.2	4.2	4.8	5.1	5.0	2.8	2.5	1.6	43
			Нижняя	3.8	4.0	5.5	7.0	9.3	9.1	9.5	9.5	8.3	4.9	3.3	3.0	77
		Пасмурные	Общая	17.8	14.3	13.5	10.4	8.4	5.8	6.2	6.2	8.0	14.5	16.1	21.2	144
			Нижняя	13.7	10.4	9.3	6.4	4.5	2.2	2.8	2.9	4.5	11.4	15.5	18.5	102

ТАБЛИЦА 5

Table 5. MEAN MONTHLY AND ANNUAL TOTAL AND LOW CLOUD COVER (points)

Station No.	Station	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
		YAROSLAVSKAYA OBLAST													
6	Пошехонье-Володарск	Общая Total	8.2	7.6	7.0	6.4	6.2	5.6	5.8	5.6	7.0	8.1	8.5	8.6	7.0
		Нижняя Low	6.7	5.6	4.8	4.3	4.1	3.6	3.7	3.7	5.3	7.0	7.5	7.4	5.3
13	Данилов	Общая	8.2	7.6	7.1	6.6	6.6	6.2	[illegible]	5.9	7.1	8.2	8.5	8.6	7.2
		Нижняя	6.2	5.9	4.9	4.0	4.1	3.7	3.7	3.5	4.9	6.6	7.3	7.3	5.2
15, 18	Рыбинск	Общая	8.2	7.7	7.2	6.5	6.4	6.2	6.2	5.8	7.2	8.2	8.6	8.0	7.2
		Нижняя	6.6	6.0	5.1	4.5	4.5	4.2	4.2	4.1	5.7	7.2	7.6	7.4	5.6
21	Тутаев	Общая	8.3	7.6	7.2	6.6	6.6	6.3	6.4	6.2	7.3	8.4	8.5	8.7	7.3
		Нижняя	6.7	6.0	5.0	4.2	4.4	4.1	4.4	4.1	5.5	7.3	7.5	7.4	5.6
25	Ярославль	Общая	8.1	7.5	7.1	6.4	6.4	6.0	6.0	5.8	6.9	8.0	8.4	8.5	7.1
		Нижняя	6.8	5.9	5.2	4.4	4.6	4.2	4.2	4.1	5.3	7.1	7.6	7.6	5.6
26	Углич	Общая Total	8.2	7.7	7.0	6.3	6.2	6.0	6.0	5.8	7.0	8.0	8.4	8.5	7.1
		Нижняя Low	7.0	6.3	5.2	4.4	4.2	3.8	3.8	3.8	5.4	7.0	7.7	7.8	5.5
31	Ростов	Общая	7.9	7.4	6.9	6.2	6.2	5.7	5.6	5.9	6.6	7.8	8.2	8.4	6.9
		Нижняя	6.0	5.5	4.6	3.9	3.9	3.4	3.4	3.5	4.7	6.5	7.0	7.1	5.0
33	Переславль-Залесский	Общая	8.1	7.6	7.0	6.4	6.4	6.2	6.3	6.1	6.9	7.8	8.4	8.6	7.2
		Нижняя	6.7	5.7	5.0	4.2	4.1	3.7	3.7	3.8	5.0	6.6	7.4	7.6	5.3
		KALININSKAYA OBLAST													
36	Кесьма	Общая Total	8.2	7.7	6.9	6.8	6.7	6.8	6.7	6.6	7.5	8.2	8.9	8.8	7.5
		Нижняя Low	6.4	5.8	4.3	4.2	4.6	4.4	4.4	4.6	5.6	6.9	7.2	7.3	5.5
42	Белогорье	Общая	8.3	7.9	6.9	6.6	6.4	6.2	6.1	6.2	7.1	8.1	8.6	8.7	7.3
		Нижняя	7.4	6.7	5.4	4.5	4.5	4.2	3.9	4.9	5.5	7.2	8.1	8.1	5.8
46	Бежецк	Общая	8.0	7.7	6.8	6.4	6.1	6.2	6.2	6.0	6.9	8.0	8.4	8.5	7.1
		Нижняя	6.5	5.9	4.5	4.2	4.2	4.0	4.0	4.0	5.1	6.7	7.4	7.3	5.3
51	Вышний Волочек	Общая	8.2	7.8	6.9	6.4	6.2	6.1	5.9	6.1	6.9	7.9	8.5	8.6	7.1
		Нижняя	6.7	6.3	5.0	4.6	4.6	4.3	4.1	4.3	5.4	6.8	7.7	7.7	5.6
55	Кашин	Общая	8.2	7.8	7.2	6.8	6.7	6.5	6.5	6.3	7.3	8.2	8.6	8.7	7.4
		Нижняя	7.0	6.2	5.2	4.6	4.7	4.4	4.3	4.5	5.7	7.1	7.7	7.9	5.8
59	Осташков	Общая	8.3	8.1	7.1	6.6	6.4	6.4	6.2	6.3	7.2	8.2	8.7	8.7	7.4
		Нижняя	7.3	7.0	6.0	4.7	4.3	4.0	3.8	4.1	5.3	7.0	8.0	8.1	5.8
82	Старица	Общая	8.3	7.8	7.0	6.4	6.0	6.0	5.8	6.1	6.8	7.9	8.4	8.5	7.1
		Нижняя	6.5	5.8	4.9	4.2	4.0	3.7	3.7	4.3	5.2	6.4	7.4	7.2	5.3
83	Тургиново	Общая	8.4	7.8	7.2	6.7	6.4	6.4	6.4	6.6	7.1	8.1	8.5	8.5	7.3
		Нижняя	6.6	6.1	4.8	4.0	4.2	3.9	3.9	4.3	5.3	6.6	7.3	7.3	5.4
84	Торопец	Общая	8.7	8.2	7.5	7.1	6.6	6.7	6.7	6.9	7.4	8.3	8.8	8.9	7.6
		Нижняя	7.6	6.9	5.7	5.1	4.9	4.9	4.8	5.1	5.9	7.4	8.2	8.2	6.2
88	Западная Двина	Общая	8.3	8.1	7.2	6.9	6.5	6.5	6.5	6.4	7.0	8.0	8.5	8.7	7.4
		Нижняя	6.9	7.2	5.4	4.8	4.5	4.4	4.4	4.5	5.3	6.9	8.1	8.1	5.9
94	Белый	Общая	8.4	7.8	6.8	6.5	6.1	6.2	6.1	6.2	6.9	7.9	8.5	8.6	7.2
		Нижняя	7.3	6.2	5.0	4.5	4.2	4.1	3.9	4.4	5.1	6.9	7.8	7.7	5.6
		MOSKOVSKAYA OBLAST													
103	Дмитров	Общая Total	8.1	7.5	6.9	6.5	6.5	6.1	6.2	6.4	7.1	8.0	8.1	8.6	7.2
		Нижняя Low	7.1	6.8	5.0	4.8	4.8	4.3	4.4	4.7	5.7	7.1	7.4	8.0	5.8

Station No.	Station	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
104	Загорск	Общая Total	8.2	7.6	7.0	6.6	6.6	6.3	6.3	6.5	7.1	8.0	8.3	8.7	7.3
		Нижняя Low	7.0	6.2	5.5	4.5	4.7	4.1	4.1	4.6	5.6	7.0	7.3	7.8	5.7
110	Волоколамск	Общая	8.3	8.0	7.2	6.6	6.2	6.1	6.0	6.1	6.9	7.9	8.0	8.6	7.2
		Нижняя	7.2	6.5	5.5	4.7	4.6	4.1	4.2	4.4	5.4	6.9	7.7	7.5	5.7
117	Починки	Общая	7.8	7.6	7.3	6.8	6.6	6.2	6.5	6.2	6.7	7.9	8.4	8.5	7.2
		Нижняя	6.0	5.4	4.9	4.2	4.1	3.7	3.9	4.0	4.9	6.7	7.1	7.3	5.2
118	Ново-Иерусалим	Общая	8.2	7.8	7.1	6.6	6.3	5.9	5.9	6.0	6.9	8.0	8.4	8.7	7.2
		Нижняя	6.9	6.4	5.3	4.7	4.8	4.2	4.1	4.3	5.4	6.6	7.5	7.7	5.7
121	Москва, с.-х. академия	Общая	8.2	7.9	7.0	6.6	6.3	5.9	6.0	6.2	6.6	8.0	8.4	8.6	7.2
		Нижняя	6.9	6.2	5.2	4.6	4.3	4.0	4.0	4.2	5.1	6.6	7.4	7.8	5.5
142	Куровское	Общая	7.9	7.4	6.9	6.4	6.1	5.8	5.7	5.7	6.5	7.7	8.2	8.3	6.9
		Нижняя	6.3	5.5	4.7	4.1	3.9	3.4	3.4	3.6	4.7	6.3	7.1	7.2	5.0
145	Черусти	Общая	7.7	7.2	6.6	6.2	6.0	5.6	5.7	5.6	6.3	7.5	8.0	8.2	6.7
		Нижняя	6.0	5.5	4.6	4.2	4.0	3.6	3.7	3.7	4.7	6.3	6.8	7.5	5.0
146	Можайск	Общая	8.3	7.9	7.2	6.6	6.4	6.2	6.0	6.2	6.8	7.8	8.4	8.5	7.2
		Нижняя	7.1	6.3	5.3	4.6	4.7	4.2	4.3	4.6	5.4	6.7	7.4	7.9	5.7
156	Коломна	Общая	7.8	7.4	6.8	6.3	6.1	6.0	5.8	5.7	6.4	7.6	8.0	8.3	6.8
		Нижняя	6.5	5.8	4.8	4.5	4.4	4.0	4.0	4.1	5.2	6.6	7.1	7.0	5.3
157	Михнево	Общая	8.1	7.6	7.1	6.7	6.2	6.1	6.0	5.9	6.6	7.8	8.2	8.5	7.1
		Нижняя	6.8	6.2	5.3	4.4	4.0	3.4	3.5	3.7	4.8	6.6	7.4	7.7	5.3
163	Кашира	Общая	7.8	7.2	6.8	6.2	5.7	5.4	5.3	5.3	6.1	7.5	8.0	8.3	6.6
		Нижняя	6.6	5.7	5.2	4.4	3.9	3.4	3.4	3.5	4.4	6.2	7.2	7.4	5.1
							VLADIMIRSKAYA OBLAST								
168	Александров	Общая	8.2	7.8	7.3	6.9	6.7	6.4	6.5	6.4	7.2	8.2	8.5	8.7	7.4
		Нижняя	6.6	6.3	5.3	4.5	4.5	4.1	4.2	4.2	5.4	6.9	7.5	7.6	5.6
171	Вязники	Общая	8.0	7.3	7.0	6.2	6.1	5.5	5.6	5.4	6.6	7.8	8.1	8.3	6.8
		Нижняя	6.7	5.4	4.6	3.6	3.5	2.7	3.2	3.2	4.4	6.3	6.8	7.3	4.8
176	Владимир	Общая	7.8	7.3	6.8	6.2	6.2	5.6	5.7	5.6	6.6	7.8	8.1	8.3	6.8
		Нижняя	6.1	5.6	4.7	4.0	4.0	3.4	3.5	3.5	4.9	7.4	7.0	7.3	5.1
180	Селиваиовское оп. поле	Общая Total	7.9	7.2	6.7	6.3	6.3	5.6	5.8	5.8	6.7	7.8	7.9	8.4	6.9
		Нижняя Low	6.5	5.6	4.9	4.3	4.5	3.7	4.2	4.1	5.4	7.1	6.9	7.3	5.4
185	Гусь-Хрустальный	Общая	7.9	7.2	6.8	6.4	6.2	5.7	5.6	5.5	6.4	7.8	7.9	8.4	6.8
		Нижняя	6.5	6.0	5.0	4.2	4.0	3.5	3.6	3.6	4.7	6.7	7.0	7.5	5.2
186	Муром	Общая	7.8	7.2	6.8	6.1	5.9	5.2	5.4	5.3	6.3	7.6	7.9	8.3	6.6
		Нижняя	6.5	5.7	4.8	4.1	3.8	3.2	3.5	3.4	4.7	6.6	7.0	7.4	5.1
							SMOLENSKAYA OBLAST								
194	Велиж	Общая Total	8.5	7.9	7.0	6.7	6.4	6.3	6.2	6.4	7.0	8.1	8.5	8.7	7.3
		Нижняя Low	7.8	7.2	5.6	5.2	4.7	4.6	4.6	4.9	5.7	7.1	8.0	8.3	6.1
195	Гжатск	Общая	8.3	7.8	6.9	6.2	5.8	5.6	5.7	5.6	6.6	7.8	8.3	8.5	6.9
		Нижняя	7.2	6.4	5.3	4.3	4.3	3.9	4.2	4.2	5.3	6.7	7.6	7.8	5.6
196	Ново-Пречистое	Общая	8.3	7.8	6.9	6.5	6.1	6.0	6.0	6.1	6.8	8.0	8.5	8.6	7.1
		Нижняя	7.5	6.5	5.3	4.5	4.1	3.8	3.9	4.2	5.0	6.6	7.7	7.9	5.6
198	Дечилов	Общая	8.3	7.9	7.1	6.6	6.2	6.1	6.1	6.0	6.7	7.9	8.5	8.5	7.2
		Нижняя	7.0	6.4	5.4	4.4	4.1	3.8	3.8	4.1	4.8	6.6	7.6	7.4	5.4
203	Сафоново	Общая	8.3	7.9	7.1	6.5	6.1	6.7	5.9	6.3	6.7	8.0	8.5	8.6	7.2
		Нижняя	7.3	6.8	5.6	4.5	4.0	3.9	3.9	4.2	5.0	6.8	7.7	7.7	5.6
211	Смоленск	Общая	8.3	7.9	7.0	6.5	6.0	6.7	5.9	6.1	6.5	7.8	8.6	8.6	7.2
		Нижняя	7.4	6.7	5.4	4.6	4.1	4.2	3.9	4.3	4.9	6.8	7.9	7.9	5.7
212	Ельня	Общая	8.3	7.7	6.9	6.3	5.8	5.8	5.8	5.8	6.4	7.7	8.4	8.5	7.0
		Нижняя	7.1	6.3	5.3	4.2	3.6	3.7	3.6	3.8	4.7	6.4	7.6	7.6	5.3
213	Починок	Общая	8.1	7.7	6.7	6.3	5.7	5.9	5.7	5.9	6.3	7.6	8.3	8.4	6.9
		Нижняя	7.0	6.4	5.2	4.4	3.8	3.8	3.6	4.2	4.6	6.3	7.6	7.4	5.4
217	Рославль	Общая	8.2	7.9	7.1	6.6	5.9	6.1	5.9	6.0	6.5	7.6	8.5	8.5	7.1
		Нижняя	7.3	6.6	5.5	4.4	3.8	3.9	3.6	4.0	4.5	6.4	7.7	7.7	5.4
							KALUZHSKAYA OBLAST								
219	Малоярославец	Общая Total	8.1	7.6	6.8	6.3	5.9	5.5	5.5	5.5	6.3	7.5	8.2	8.5	6.8
		Нижняя Low	6.7	5.9	5.0	4.2	4.0	3.5	3.7	3.6	4.7	6.3	7.3	7.4	5.2
224	Мосальск	Общая	8.4	7.8	7.0	6.5	6.0	5.8	5.8	5.9	6.3	7.6	8.3	8.5	7.0
		Нижняя	7.0	6.1	5.1	3.9	3.7	3.4	3.5	3.6	4.3	6.1	7.3	7.5	5.1
225	Калуга	Общая	8.1	7.8	7.0	6.5	6.0	5.7	5.6	5.8	6.4	7.5	8.2	8.4	6.9
		Нижняя	7.1	6.4	5.5	4.8	4.4	4.0	4.1	4.2	5.1	6.6	7.6	7.7	5.6

Station No.	Station	Cloud cover	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
226	Спас-Деменск	Общая Total	8.3	7.6	7.1	6.4	5.6	5.6	5.7	5.9	6.5	7.6	8.4	8.6	7.0
		Нижняя Low	7.5	6.7	5.6	4.6	4.4	4.2	4.3	4.5	5.3	6.8	7.9	8.0	5.6
232	Жиздра	Общая	8.0	7.4	6.8	6.2	5.5	5.4	5.2	5.5	6.2	7.5	8.1	8.3	6.7
		Нижняя	7.2	6.5	5.7	4.7	4.0	3.7	3.6	4.1	5.2	6.6	7.5	8.0	5.6
							RYAZANSKAYA OBLAST								
233	Тума	Общая	7.8	7.4	7.0	6.5	6.6	5.7	5.8	5.8	6.5	7.7	8.1	8.3	6.9
		Нижняя	6.6	6.1	5.2	4.6	4.3	3.7	4.1	4.1	5.0	6.7	7.1	7.5	5.4
234	Елатьма	Общая	7.7	7.2	6.8	6.3	5.9	5.4	5.5	5.5	6.3	7.7	7.9	8.3	6.7
		Нижняя	6.0	5.4	4.7	4.1	3.9	3.2	3.4	3.4	4.6	6.6	7.0	7.3	5.0
239	Сасово	Общая	7.7	7.3	6.8	6.3	6.0	5.4	5.5	5.5	6.2	7.5	7.8	8.2	6.7
		Нижняя	6.3	5.4	4.7	4.2	4.0	3.4	3.7	3.7	4.5	6.4	6.8	7.1	5.0
240	Шилово	Общая	7.7	7.2	6.8	6.2	5.2	5.1	5.5	5.3	6.1	7.5	7.9	8.1	6.6
		Нижняя	5.7	5.0	4.4	3.9	3.6	2.9	3.1	3.0	4.1	6.0	6.5	6.8	4.6
242	Михайлов	Общая	7.8	7.4	6.8	6.2	5.7	5.3	5.3	5.3	6.1	7.4	7.8	8.3	6.6
		Нижняя	6.1	5.4	4.7	3.9	3.5	2.8	2.9	3.0	3.9	5.9	6.6	7.3	4.7
246	Пителец	Общая	7.8	7.5	6.9	6.5	6.0	5.6	5.7	5.6	6.2	7.5	7.9	8.3	6.8
		Нижняя	5.7	5.1	4.2	3.9	3.3	3.0	3.1	3.0	3.7	5.6	6.4	6.9	4.5
247	Ряжск	Общая	7.5	7.1	6.6	6.1	5.6	5.2	5.4	5.3	5.8	7.3	7.7	8.1	6.5
		Нижняя	6.0	5.6	4.9	4.2	3.6	3.1	3.2	3.1	4.0	5.9	6.7	7.3	4.8
							TUL'SKAYA OBLAST								
255	Тула	Общая	8.0	7.7	7.0	6.4	6.0	5.7	5.7	5.7	6.4	7.6	8.0	8.4	6.9
		Нижняя	7.0	6.4	5.4	4.6	4.2	3.6	4.0	4.1	4.8	6.4	7.3	7.6	5.5
259	Белев	Общая	8.2	7.8	7.0	6.5	6.0	5.8	5.7	5.8	6.3	7.5	7.8	8.4	6.9
		Нижняя	7.0	6.2	5.3	4.4	3.8	3.6	3.6	3.7	4.5	6.3	7.2	7.4	5.2
262	Волово	Общая	7.7	7.3	6.8	6.4	5.7	5.3	5.5	5.4	5.9	7.3	7.9	8.3	6.6
		Нижняя	6.5	6.1	5.1	4.3	3.8	3.3	3.5	3.4	4.2	6.2	7.0	7.6	5.1
263	Чернь and Скуратово	Общая	8.0	7.6	7.0	6.5	5.8	5.5	5.5	5.5	6.2	7.5	8.1	8.4	6.8
		Нижняя	7.3	6.5	5.7	4.6	4.2	3.7	4.0	4.2	4.8	6.7	7.3	8.0	5.6
265	Ефремов	Общая	7.9	6.9	6.7	6.3	5.6	5.3	5.3	5.2	5.8	7.2	7.8	8.2	6.5
		Нижняя	6.9	5.9	5.6	4.8	4.0	3.6	3.8	3.8	4.5	6.2	7.2	7.5	5.3

Table 6. Mean monthly and annual total cloud cover at various hours of the day (points).

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Years
YAROSLAVSKAYA OBLAST													
13. Данилов													
1	8.1	7.3	6.4	5.4	5.4	5.3	5.4	4.4	5.9	7.7	8.3	8.3	6.5
7	8.3	8.2	7.6	6.6	6.5	5.8	6.0	6.1	7.9	8.7	8.8	8.7	7.4
13	8.5	7.8	7.5	7.2	7.6	7.3	7.3	7.2	7.9	8.8	9.0	9.0	7.9
19	7.9	7.1	7.0	6.7	6.8	6.3	6.3	6.0	6.8	7.7	8.0	8.4	7.1
KALININSKAYA OBLAST													
51. Вышний Волочек													
1	8.2	7.6	6.1	5.1	5.0	5.3	4.7	4.5	5.6	7.3	8.3	8.3	6.3
7	8.3	8.4	7.6	6.8	6.1	5.7	5.6	6.3	7.6	8.5	8.8	8.6	7.4
13	8.4	7.8	7.2	7.1	7.2	7.2	7.1	7.3	7.7	8.5	8.8	8.8	7.8
19	7.9	7.4	6.6	6.5	6.7	6.4	6.2	6.2	6.5	7.2	8.1	8.5	7.0
84. Торопец													
1	8.6	7.9	6.5	6.0	5.2	5.9	5.6	5.3	6.1	7.6	8.6	8.7	6.8
7	8.9	8.8	8.2	7.2	6.4	6.0	6.5	7.1	8.1	8.9	9.1	8.9	7.8
13	8.8	8.5	7.8	7.7	7.6	7.8	7.8	8.0	8.4	8.8	9.1	9.1	8.3
19	8.3	7.8	7.4	7.5	6.9	7.0	7.0	7.1	7.1	7.9	8.6	8.7	7.6
MOSKOVSKAYA OBLAST													
121. Москва, с.-х. академия													
1	8.0	7.6	6.5	5.4	4.9	4.8	4.5	4.3	5.6	7.6	8.2	8.4	6.3
7	8.4	8.6	7.6	6.8	6.2	5.5	5.9	6.4	7.4	8.6	8.5	8.7	7.4
13	8.5	8.0	7.5	7.4	7.2	7.3	7.3	7.4	7.6	8.4	8.6	8.9	7.8
19	7.8	7.5	6.8	6.8	6.5	6.1	6.4	6.5	6.4	7.4	8.2	8.5	7.1
156. Коломна													
1	7.6	7.1	6.3	4.9	4.8	4.6	4.4	3.9	5.1	6.9	7.8	8.1	6.0
7	8.1	7.9	7.5	6.7	6.1	5.6	5.7	5.9	7.0	8.2	8.3	8.4	7.1
13	8.3	7.7	7.2	7.3	7.4	7.2	7.3	7.2	7.5	8.3	8.4	8.6	7.7
19	7.2	6.8	6.6	6.4	6.5	6.2	6.0	5.9	6.2	7.0	7.6	8.2	6.7
VLADIMIRSKAYA OBLAST													
176. Владимир													
1	7.6	7.0	6.3	4.8	4.8	4.4	4.5	3.7	5.2	7.2	7.9	8.2	6.0
7	7.9	8.0	7.4	6.7	6.3	5.3	5.6	5.8	7.1	8.2	8.5	8.4	7.1
13	8.1	7.4	6.9	7.0	7.2	6.9	7.0	6.9	7.5	8.5	8.4	8.6	7.5
19	7.2	6.6	6.5	6.5	6.4	6.0	5.8	5.8	6.5	7.2	7.6	8.1	6.7
SMOLENSKAYA OBLAST													
211. Смоленск													
1	8.1	7.6	6.3	5.3	4.5	4.8	4.5	4.3	5.0	7.2	8.2	8.4	6.2
7	8.6	8.6	7.8	7.1	6.1	5.7	6.0	6.3	7.2	8.4	8.9	8.9	7.5
13	8.5	8.1	7.2	7.3	7.3	7.4	7.2	7.4	7.7	8.3	8.8	8.9	7.8
19	8.0	7.5	6.8	6.6	6.3	6.1	6.2	6.2	6.1	7.2	8.2	8.3	7.0

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
217. Рославль													
1	8.1	7.8	6.5	5.3	4.2	5.1	4.2	4.1	5.0	7.0	8.3	8.4	6.2
7	8.4	8.4	7.8	6.8	5.9	5.8	5.7	6.2	7.0	8.3	8.6	8.7	7.3
13	8.4	8.1	7.3	7.5	7.4	7.2	7.3	7.4	7.5	8.3	8.7	8.7	7.8
19	7.8	7.3	6.9	6.8	6.1	6.3	6.3	6.3	6.3	7.0	8.3	8.2	7.0
KALUZHSKAYA OBLAST													
225. Калуга													
1	8.1	7.5	6.6	5.5	4.7	4.6	4.2	4.2	5.2	6.9	8.0	8.4	6.2
7	8.5	8.4	7.8	6.7	5.9	5.5	5.7	6.1	7.0	8.3	8.5	8.5	7.2
13	8.3	7.9	7.1	7.2	6.9	6.8	6.9	7.0	7.4	8.3	8.5	8.6	7.6
19	7.7	7.3	6.8	6.5	6.3	6.0	5.8	5.8	6.0	6.7	7.9	8.1	6.7
RYAZANSKAYA OBLAST													
234. Елатьма													
1	7.5	7.0	6.2	5.2	4.7	4.3	4.1	3.7	5.0	7.2	7.7	8.2	5.9
7	7.9	7.6	7.6	6.4	5.9	5.0	5.4	5.8	6.9	8.1	8.2	8.4	6.9
13	8.0	7.5	6.9	6.9	6.9	6.5	7.0	6.8	7.1	8.3	8.2	8.5	7.4
19	7.3	6.7	6.7	6.5	6.1	5.7	5.7	5.6	6.3	7.2	7.6	8.0	6.6
247. Ряжск													
1	7.3	6.7	6.1	4.8	4.2	3.9	4.0	3.4	4.5	6.4	7.3	8.0	5.6
7	7.7	7.6	7.3	6.4	5.4	4.9	5.1	5.3	6.2	7.7	8.1	8.2	6.7
13	7.9	7.4	6.7	6.9	6.9	6.5	6.8	6.6	7.0	8.0	8.0	8.4	7.3
19	6.9	6.7	6.4	6.3	5.8	5.7	5.7	5.6	5.7	6.9	7.3	7.9	6.4
TUL'SKAYA OBLAST													
255. Тула													
1	7.9	7.3	6.4	5.1	4.4	4.1	4.0	3.9	5.2	6.9	7.9	8.4	6.0
7	8.4	8.4	7.7	6.8	6.0	5.5	5.6	6.1	7.0	8.4	8.3	8.4	7.2
13	8.3	8.0	7.2	7.4	7.3	7.1	7.2	7.1	7.3	8.3	8.3	8.7	7.7
19	7.5	7.0	6.7	6.5	6.3	6.0	5.9	5.7	6.0	6.9	7.7	8.1	6.7
263. Чернь и Скуратово													
1	7.9	7.3	6.6	5.1	4.3	4.2	4.0	3.8	5.0	6.7	8.0	8.2	5.9
7	8.3	8.2	7.6	7.0	5.8	5.3	5.4	5.8	6.8	8.1	8.3	8.5	7.1
13	8.3	7.8	7.0	7.2	7.0	6.8	6.9	6.8	7.2	8.3	8.3	8.7	7.5
19	7.6	7.0	6.9	6.7	6.1	5.7	5.6	5.7	5.9	6.9	7.7	8.1	6.6

Table 7. Mean monthly and annual lower cloud cover at various hours of the day (points).

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
YAROSLAVSKAYA OBLAST													
13. Данилов													
1	6.2	5.8	4.7	3.5	3.6	2.8	2.9	2.5	4.1	6.3	7.1	7.3	4.7
7	6.6	6.4	5.2	4.1	3.4	3.2	3.0	3.3	5.4	7.1	7.6	7.6	5.2
13	6.2	5.7	5.0	4.9	5.7	5.5	5.7	5.2	6.1	7.4	7.4	7.3	6.0
19	6.0	5.5	4.6	3.7	3.9	3.2	3.1	2.5	4.1	6.4	7.2	7.0	4.8

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
KALININSKAYA OBLAST													
51. Вышний Волочек													
1	6.8	6.4	4.7	4.0	3.9	3.7	3.6	3.4	4.5	6.4	7.5	7.5	5.2
7	7.2	7.1	5.7	4.5	3.9	3.6	3.4	4.3	5.8	7.3	8.1	7.9	5.7
13	6.4	5.7	4.9	5.3	5.9	5.8	5.8	5.7	6.3	7.3	7.8	7.6	6.2
19	6.5	6.0	4.8	4.5	4.6	4.0	3.8	3.9	4.8	6.3	7.5	7.7	5.4
84. Торопец													
1	7.7	6.8	5.5	4.5	4.1	4.2	3.9	4.0	4.8	6.9	8.2	8.0	5.7
7	8.1	7.6	6.3	5.0	4.4	4.0	4.4	5.0	6.6	7.9	8.5	8.4	6.4
13	7.4	6.7	5.7	5.6	6.3	6.6	6.5	6.6	6.7	7.6	8.2	8.2	6.8
19	7.3	6.6	5.4	5.0	4.9	5.0	4.5	4.8	5.4	7.1	8.2	8.2	6.0
MOSKOVSKAYA OBLAST													
121. Москва, с.-х. академия													
1	6.8	6.3	5.3	4.2	3.6	3.4	3.3	3.1	4.4	6.6	7.4	7.6	5.2
7	7.3	6.9	5.7	4.7	4.1	3.3	3.4	3.9	5.5	7.2	7.6	8.0	5.6
13	6.6	5.5	4.9	4.9	5.5	5.6	5.3	5.4	5.8	6.9	7.4	7.6	6.0
19	6.7	6.0	5.1	4.5	4.4	3.7	3.9	3.9	4.7	6.4	7.5	7.8	5.4
156. Коломна													
1	6.6	5.9	4.8	3.8	3.8	3.3	3.2	3.1	4.3	6.3	7.0	6.9	4.9
7	7.0	6.4	5.3	4.4	3.9	3.3	3.5	3.9	5.2	6.8	7.3	7.2	5.4
13	6.4	5.3	4.4	5.4	5.9	5.7	5.9	5.8	6.2	7.1	7.1	7.1	6.0
19	6.2	5.6	4.7	4.5	4.3	3.6	3.5	3.7	5.0	6.4	6.9	7.0	5.1
VLADIMIRSKAYA OBLAST													
176. Владимир													
1	6.4	5.8	4.8	3.5	3.6	2.6	2.8	2.8	4.2	6.4	7.0	7.2	4.8
7	6.7	6.4	5.4	4.2	3.5	2.6	2.9	3.3	4.9	6.7	7.3	7.6	5.1
13	5.7	4.9	4.1	4.5	5.3	5.1	5.4	4.9	5.8	6.9	6.8	7.1	5.5
19	6.0	5.3	4.7	3.9	3.6	3.2	3.1	3.0	4.8	6.2	6.9	7.2	4.8
SMOLENSKAYA OBLAST													
211. Смоленск													
1	7.2	6.6	5.2	3.8	3.4	3.6	3.2	3.3	4.0	6.3	7.8	7.8	5.2
7	7.9	7.4	6.1	4.7	3.7	3.4	3.6	4.2	5.3	7.3	8.2	8.2	5.8
13	7.3	6.4	5.0	5.4	5.6	5.8	5.7	5.8	5.9	7.0	7.8	7.9	6.3
19	7.2	6.1	5.1	4.3	3.9	3.8	3.4	3.8	4.2	6.2	7.8	7.8	5.3
217. Рославль													
1	7.4	6.9	5.3	4.1	3.0	3.3	2.7	2.8	3.5	5.9	7.7	7.8	5.0
7	7.6	7.3	6.2	4.0	3.0	2.9	2.9	3.9	4.6	6.9	7.9	8.1	7.1
13	7.1	6.1	5.2	5.2	5.6	5.8	5.6	5.8	5.5	6.9	7.6	7.6	6.2
19	7.0	6.1	5.1	4.5	3.6	3.5	3.4	3.4	4.2	6.1	7.7	7.4	5.2
KALUZHSKAYA OBLAST													
225. Калуга													
1	7.2	6.5	5.5	4.5	3.8	3.3	3.3	3.4	4.3	6.2	7.6	7.8	5.3
7	7.6	7.2	6.1	4.9	3.9	3.5	3.9	4.3	5.5	7.2	7.9	8.0	5.8
13	6.8	6.0	5.1	5.3	5.4	5.5	5.6	5.5	5.9	7.1	7.6	7.6	6.1
19	6.7	6.0	5.3	4.6	4.4	3.7	3.7	3.8	4.6	6.0	7.5	7.5	5.3

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
RYAZANSKAYA OBLAST													
234. Елатьма													
1	6.1	5.4	4.7	3.9	3.6	2.6	2.7	2.6	4.1	6.4	7.0	7.3	4.7
7	6.4	6.1	5.4	4.1	3.4	2.4	2.9	3.2	4.7	6.6	7.3	7.5	5.0
13	5.6	5.0	4.3	4.4	4.9	4.8	5.1	4.7	5.2	6.7	6.9	7.1	5.4
19	5.8	5.2	4.5	4.1	3.8	2.9	3.1	2.8	4.6	6.4	6.8	7.3	4.8
247. Ряжск													
1	6.1	5.6	5.0	3.8	3.1	2.4	2.6	2.1	3.2	5.4	6.7	7.2	4.4
7	6.5	6.3	5.6	4.0	3.0	2.2	2.3	2.7	3.7	6.0	7.1	7.4	4.7
13	5.7	5.2	4.4	4.8	5.1	4.8	5.1	4.7	5.0	6.4	6.5	7.1	5.4
19	5.7	5.6	4.7	4.2	3.3	3.0	2.9	3.0	3.7	5.8	6.5	7.3	4.6
TUL'SKAYA OBLAST													
255. Тула													
1	7.1	6.4	5.5	4.0	3.1	3.0	3.0	2.9	3.9	5.9	7.3	7.6	5.0
7	7.7	7.3	6.1	4.6	3.8	3.1	3.4	3.8	5.3	6.9	7.5	7.8	5.6
13	6.7	5.9	5.0	5.3	5.7	5.6	5.8	5.3	5.6	7.0	7.2	7.5	6.0
13	6.7	6.0	5.2	4.4	4.2	3.7	3.7	3.7	4.5	6.0	7.2	7.4	5.2
263. Чарнь и Скуратово													
1	7.2	6.5	5.8	4.2	3.5	3.2	3.2	3.3	4.2	6.1	7.4	7.9	5.2
7	7.7	7.3	6.3	4.9	3.8	3.1	3.6	4.2	5.1	7.1	7.6	8.2	5.7
13	7.1	6.1	5.3	5.3	5.6	5.2	5.7	5.6	5.5	7.1	7.2	7.9	6.1
19	7.1	6.1	5.6	4.7	3.9	3.5	3.7	3.8	4.3	6.3	7.1	7.9	5.3

Table 8. Recurrence of basic forms of cloud cover.

Month	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
YAROSLAVSKAYA OBLAST											
6. Пошехонье-Володарск											
I	8	1	14	11	27	1	1	21	23	16	14
II	8	0.4	14	11	24	2	1	18	21	13	11
III	12	1	16	14	17	4	1	18	17	9	11
IV	14	1	12	18	11	9	3	28	12	5	12
V	17	1	11	22	8	20	8	26	7	1	10
VI	23	2	12	27	7	23	12	20	6	1	9
VII	23	2	10	27	5	25	12	24	6	1	10
VIII	20	1	10	24	6	20	11	22	6	2	8
IX	16	1	8	25	8	13	7	30	11	4	15
X	10	1	9	19	11	7	2	36	15	9	21
XI	11	1	12	13	18	2	1	28	20	18	21
XII	6	0.3	11	11	29	1	1	20	22	22	17
Year	16	1	11	20	25	11	5	24	14	8	13
15, 18. Рыбинск											
I	11	1	22	14	22		0.4	32	22	10	18
II	15	0.4	14	14	15	0.2	1	29	20	9	15
III	22	1	18	14	12	1	1	26	15	6	12
IV	25	1	14	17	8	6	4	31	11	2	18

Month	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
V	26	2	12	19	5	18	13	40	6	1	10
VI	37	2	7	23	4	24	18	39	4	1	9
VII	35	2	6	24	3	26	20	39	4	1	8
VIII	37	2	9	21	5	19	16	41	5	1	9
IX	24	2	9	21	5	12	13	47	9	2	16
X	21	1	12	17	7	3	7	51	13	5	19
XI	17	1	14	14	9	1	1	37	14	15	20
XII	13	0.3	16	16	19	0.1	1	34	21	17	20
Year	26	1	13	19	9	9	8	37	12	6	14

21. Тутаев

I	22	2	8	13	40	0.8	0.3	23	28	10	7
II	21	2	7	12	31	2	0.4	22	26	6	5
III	28	2	9	14	28	4	1	20	20	5	6
IV	31	2	8	17	21	13	3	25	12	3	8
V	36	2	3	20	17	26	9	31	7	1	8
VI	42	3	2	23	15	34	12	25	6	2	7
VII	41	3	2	20	13	36	12	30	6	2	8
VIII	36	3	3	19	16	28	10	29	6	2	9
IX	30	3	2	22	20	21	5	37	11	5	12
X	25	3	4	19	25	10	3	42	18	10	15
XI	27	2	7	13	25	3	0.5	29	25	18	10
XII	26	0.8	8	15	34	1	0.04	27	29	19	8
	33	2	5	18	22	15	5	28	16	7	9

KALININSKAYA OBLAST

46. Бежецк

I	13	1	12	17	27	0.4	0.7	14	23	24	12
II	14	1	16	17	28	0.4	0.4	12	24	19	13
III	21	2	16	19	21	2	0.4	13	16	16	9
IV	24	2	16	21	14	9	6	21	11	6	10
V	26	2	14	27	10	19	12	29	6	2	10
VI	35	3	16	30	9	20	16	22	5	2	9
VII	37	4	17	35	9	25	16	25	5	3	8
VIII	30	3	14	29	10	19	13	25	6	4	9
IX	23	4	15	26	13	12	8	32	11	6	14
X	20	2	13	23	18	6	5	33	16	14	17
XI	17	0.7	14	14	19	1	1	23	21	29	15
XII	17	0.4	13	17	28	0.3	0.3	15	25	34	12
	26	2	15	25	15	10	7	22	14	13	12

51. Вышний Волочек

I	12	0.4	6	15	29	0.6	1	13	34	17	13
II	12	0.6	8	15	26	1	1	13	34	13	14
III	21	0.8	9	16	18	4	1	14	22	12	11
IV	22	1	7	17	14	10	5	21	15	7	16
V	19	0.7	7	19	12	19	11	28	8	4	15
VI	27	0.9	5	23	10	25	15	23	7	3	15
VII	31	2	6	24	10	28	14	23	6	3	15
VIII	25	2	5	24	12	20	9	25	7	5	14
IX	18	0.5	5	22	13	12	7	30	12	7	20
X	15	1	3	18	18	4	4	30	18	15	24
XI	17	0.2	5	13	19	1	2	21	26	26	19
XII	11	0.7	7	17	24	0.7	1	17	33	26	16
	21	1	6	20	15	11	6	22	18	11	16

Month	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
					73. Калинин						
I	14	0.9	7	8	12	0.1	0.3	31	26	19	24
II	14	0.5	9	7	10	0.6	0.5	33	25	15	23
III	22	0.9	12	10	8	2	0.7	27	21	10	19
IV	20	0.8	11	13	7	9	6	35	15	3	15
V	19	1	7	13	4	16	13	42	9	1	11
VI	31	1	6	16	2	22	19	39	7	1	10
VII	28	2	6	15	4	22	20	40	7	2	11
VIII	25	2	6	17	5	17	18	41	9	2	13
IX	19	1	5	13	5	10	11	46	13	5	16
X	16	1	4	11	6	4	5	44	20	9	22
XI	18	0.4	6	8	6	0.8	1	33	24	20	25
XII	19	0.6	6	9	8		0.4	30	26	27	26
Year	22	1	7	12	6	9	8	37	17	9	18
					89. Ржев						
I	11	0.3	6	11	11	0.3	0.8	32	24	22	14
II	13	0.4	8	11	12	0.4	0.2	29	26	17	15
III	21	0.4	8	12	11	1	0.4	30	18	13	11
IV	22	0.7	7	14	7	8	5	37	11	5	11
V	22	0.6	6	15	4	18	12	42	6	2	9
VI	30	0.8	6	18	4	23	15	39	5	0.9	8
VII	29	1	5	18	5	22	15	38	4	2	7
VIII	25	0.8	5	17	4	20	12	37	7	2	9
IX	20	0.7	6	15	4	11	9	45	10	3	14
X	16	0.7	4	15	6	5	3	48	16	10	17
XI	15	0.4	5	10	6	0.6	1	39	23	19	20
XII	9	0.6	5	10	10	0.3	0.07	32	26	26	19
	22	0.7	6	15	6	9	6	37	14	10	13
					MOSKOVSKAYA OBLAST						
					121. Москва, с.-х. академия						
I	12	1	9	17	20	2	0.3	28	23	20	3
II	14	2	7	20	24	2	0.4	24	22	20	3
III	19	0.8	10	19	13	4	0.8	23	24	12	2
IV	20	1	9	26	12	14	3	30	12	7	3
V	24	2	7	29	8	24	5	29	9	3	4
VI	30	2	7	30	8	30	6	27	7	3	3
VII	31	2	8	37	8	32	7	26	7	4	2
VIII	25	2	7	34	9	24	6	31	7	4	4
IX	20	2	7	32	10	16	4	38	10	5	5
X	18	1	4	24	9	10	2	45	15	11	6
XI	15	0.6	5	21	16	4	0.7	35	19	23	4
XII	11	2	7	18	18	2	0.6	34	21	24	4
	22	2	7	28	12	14	3	32	14	11	4
					146. Можайск						
I	12	0.5	12	18	28	0.4	5	19	25	21	10
II	16	0.8	14	16	26	0.7	4	18	24	16	9
III	19	0.9	15	18	21	3	5	19	18	13	10
IV	19	1	15	24	22	8	9	25	10	4	12
V	22	0.7	12	23	16	16	16	29	6	2	13
VI	31	1	11	28	17	20	18	26	4	1	11
VII	29	1	8	28	14	21	21	25	4	1	12
VIII	25	1	8	27	15	16	18	27	4	3	12
IX	20	0.7	9	25	20	10	13	31	8	5	17
X	17	0.7	8	26	22	4	9	35	11	10	20
XI	16	0.3	9	20	22	1	5	25	19	21	19
XII	13	0.3	10	19	25	0.8	4	19	23	28	15
	22	0.9	11	24	19	9	11	25	13	10	14

151

Month	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
						VLADIMIRSKAYA OBLAST					
						186. Муром					
I	9	0.1	11	9	20	0.3	0.7	14	27	24	13
II	9	0.3	10	8	15	0.9	0.3	14	25	18	10
III	16	0.1	12	11	14	2	0.9	14	19	13	11
IV	16	0.06	11	17	10	11	5	22	12	5	13
V	19	0.5	9	27	9	22	10	22	10	0.2	13
VI	25	0.3	9	28	5	32	14	20	5	0.8	9
VII	21	0.6	7	31	6	32	16	23	4	1	9
VIII	20	0.4	8	27	6	24	11	22	5	3	8
IX	14	0.3	6	22	9	6	9	32	12	4	15
X	12	0.6	5	16	9	6	5	33	19	12	22
XI	14	0.3	9	10	10	2	1	21	22	25	18
XII	8		6	9	17	0.5	0.8	16	27	32	16
Year	17	0.3	8	20	10	12	6	21	16	12	13
						SMOLENSKAYA OBLAST					
						194. Велиж					
I	13		3	6	10	0.4	11	43	17	10	5
II	15		4	9	11	0.4	7	38	19	6	5
III	25	0.3	3	8	6	1	7	30	14	8	4
IV	26	0.1	4	10	8	9	13	30	8	2	10
V	26	0.1	2	11	4	20	20	28	4	1	7
VI	31	0.1	2	14	4	26	19	27	4	0.3	7
VII	33	0.2	1	15	4	25	23	26	4	1	8
VIII	30	0.1	1	14	4	18	20	31	4	2	8
IX	22	0.2	1	14	7	12	21	34	6	3	12
X	20	0.5	2	9	11	6	14	42	12	6	18
XI	18		2	6	7	2	11	43	15	19	13
XII	12	0.02	1	7	8	0.4	11	43	17	16	10
	25	0.2	2	11	6	10	15	35	10	6	9
						199. Вязьма					
I	16	0.5	5	12	19	0.3	0.5	22	21	34	12
II	20	1	5	16	19	0.6	0.6	19	23	23	14
III	28	0.6	6	15	16	2	0.5	19	16	20	11
IV	31	1	7	22	11	12	3	25	9	7	10
V	33	1	5	24	8	22	8	28	6	2	9
VI	40	2	5	30	9	27	10	23	4	2	8
VII	42	2	5	31	10	27	10	23	5	3	9
VIII	37	1	3	30	10	21	10	24	5	5	9
IX	32	1	3	25	12	14	6	33	7	5	13
X	24	0.7	3	21	13	5	2	40	13	15	14
XI	23	0.2	4	17	12	1	0.7	31	18	29	13
XII	17	0.6	5	11	19	0.2	0.3	24	23	34	16
	32	1	5	23	12	11	4	26	12	15	11
						211. Смоленск					
I	16	0.9	5	16	18	0.2	2	26	25	24	26
II	23	0.4	6	20	17	0.1	2	23	22	19	24
III	27	0.2	5	16	12	0.8	2	21	15	14	17
IV	31	0.7	4	24	7	7	9	28	12	4	15
V	31	0.6	4	26	5	20	15	30	7	2	10
VI	35	0.06	5	28	5	24	19	31	6	3	9
VII	39	0.5	3	30	4	22	18	26	6	4	9
VIII	34	0.4	4	32	5	17	16	28	8	5	11

Month	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
IX	28	0.4	4	26	5	11	10	35	9	7	12
X	24	0.8	4	24	6	4	6	41	14	12	18
XI	23	0.2	4	19	6	0.6	2	34	18	25	20
XII	20		4	17	10	0.05	2	27	23	26	25
Year	30	0.4	4	25	7	9	9	29	13	12	16

KALUZHSKAYA OBLAST

225. Калуга

I	7		8	8	11	0.2	0.1	37	22	17	20
II	9	1	13	8	11	0.6	0.4	33	20	12	17
III	14	0.5	11	8	8	2	0.7	32	15	9	13
IV	15	0.5	10	12	7	8	3	40	9	3	9
V	17	0.8	10	11	5	21	6	39	5	1	7
VI	22	0.8	8	16	3	28	9	38	4	1	4
VII	22	0.3	6	15	2	27	10	40	4	2	5
VIII	21	0.8	6	14	4	23	8	44	4	2	6
IX	14	0.5	6	12	3	16	5	50	6	2	8
X	12	0.6	6	13	4	6	3	52	12	6	14
XI	13	0.1	7	10	4	2	0.6	41	18	16	19
XII	9	0.5	8	8	8	0.8	0.3	37	19	23	19
	16	0.6	8	12	5	11	4	40	11	8	12

232. Жиздра

I	8	0.3	5	15	16	2	0.8	29	20	23	3
II	11	0.4	7	16	14	3	1	26	15	19	4
III	16	0.5	5	15	12	4	1	25	13	15	4
IV	18	1	9	20	11	14	5	25	8	6	11
V	21	0.4	6	24	8	23	9	26	6	1	12
VI	25	0.7	5	29	9	28	13	22	4	0.3	12
VII	22	1	5	25	8	30	12	20	5	1	13
VIII	23	0.7	5	27	9	25	11	26	6	1	12
IX	19	0.7	4	21	8	15	8	35	8	2	15
X	13	0.8	4	19	13	6	4	41	11	8	14
XI	14	0.8	4	19	12	4	1	38	15	13	7
XII	12	0.2	7	13	10	2	0.9	35	18	25	5
	19	0.7	5	22	10	13	6	29	11	10	9

RYAZANSKAYA OBLAST

234. Елатьма

I	9		20	11	20	0.03	0.1	20	27	12	4
II	11	0.2	19	11	16	0.3		19	24	11	4
III	14	0.3	20	14	13	1	0.5	19	17	10	5
IV	16	0.2	17	20	8	8	3	24	11	4	8
V	21	1	12	25	7	16	6	22	9	2	9
VI	27	1	11	28	4	22	8	17	4	1	5
VII	28	1	9	29	5	23	8	19	5	1	6
VIII	22	1	9	29	7	17	5	20	5	3	6
IX	16	1	10	23	7	10	3	30	10	4	10
X	13	0.4	10	24	7	3	1	35	14	12	15
XI	12	0.3	14	16	8	1	0.4	28	20	18	13
XII	10	0.1	17	12	15	0.2	0.2	22	27	23	8
	18	0.5	13	22	9	9	3	23	8	8	8

Month	Cl	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
					237. Рязань						
I	10	0.4	11	11	13	0.2	0.1	22	17	29	10
II	13	0.6	11	11	14	0.2	0.1	18	17	24	12
III	19	0.8	10	13	12	0.6	0.5	19	13	21	9
IV	17	1	9	18	10	8	3	26	8	12	6
V	20	1	7	21	8	14	6	28	7	7	6
VI	28	0.5	7	22	7	20	7	25	3	4	4
VII	26	0.6	4	22	8	20	8	26	5	3	5
VIII	22	0.7	4	23	8	16	7	27	5	3	4
IX	18	0.7	5	24	11	10	4	33	7	5	6
X	17	0.8	5	21	10	4	2	41	11	15	10
XI	15	0.6	7	15	9	1	0.3	30	14	29	11
XII	11	0.3	7	12	12	0.2	0.3	25	17	35	11
Year	19	0.7	7	19	10	8	3	27	10	15	8
					246. Павелец						
I	19	0.3	7	23	27	0.1	0.1	11	17	22	3
II	20	1	9	22	25	0.2	0.1	9	15	21	2
III	26	1	7	23	19	1	0.3	10	11	16	4
IV	30	0.3	7	27	12	13	1	20	7	7	6
V	33	1	5	29	10	11	3	21	5	4	6
VI	38	1	4	33	8	29	4	21	3	2	4
VII	33	2	4	34	9	31	4	20	4	2	5
VIII	28	1	4	34	9	23	3	19	4	3	5
IX	27	1	4	35	11	13	2	25	5	6	6
X	25	2	4	20	9	6	0.4	32	9	12	10
XI	26	0.4	5	22	18	2	0.2	21	12	26	6
XII	21	0.3	6	21	22	0.2		13	15	35	4
	29	1	5	28	13	11	2	19	8	12	5
					TUL'SKAYA OBLAST						
					255. Тула						
I	8	03	8	15	23	0.4	0.7	22	24	19	18
II	11	0.9	7	15	21	0.4	0.9	20	22	15	15
III	14	2	6	16	17	2	1	19	17	13	15
IV	17	1	8	19	13	10	6	24	10	8	10
V	20	2	6	23	11	17	13	28	7	3	7
VI	27	2	4	25	9	22	18	28	3	1	4
VII	26	2	4	25	10	23	20	28	4	1	6
VIII	22	2	4	25	9	17	17	28	4	4	6
IX	16	1	4	22	11	10	13	36	10	4	8
X	14	0.9	4	21	13	5	5	37	12	13	13
XI	13	0.6	4	16	13	1	1	27	18	25	16
XII	7	0.7	4	12	20	0.5	0.5	21	21	26	19
	18	2	5	21	13	9	8	27	12	11	11
					262. Волово						
I	8	0.5	8	12	14	0.1	0.3	29	22	11	8
II	9	0.3	10	12	12	0.08	0.6	26	23	7	8
III	12	1	9	15	11	0.7	0.4	19	18	9	6
IV	14	1	9	20	9	10	7	17	8	5	7
V	19	0.7	6	21	5	17	13	16	5	3	7
VI	24	2	6	25	5	22	16	13	2	2	4
VII	23	2	5	25	5	20	18	13	2	3	4
VIII	19	0	4	26	5	19	14	15	3	3	4
IX	15	1	5	24	6	9	11	23	5	4	6
X	13	0.7	5	23	6	5	8	33	9	10	9
XI	11	0.7	5	16	9	1	1	30	18	18	10
XII	8	0.5	7	13	10	0.2	0.4	31	21	20	8
	16	0.9	6	21	7	8	8	22	11	7	7

Table 8a. Recurrence of basic forms of cloud cover at various hours of the day (%).

Month	Hrs.	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
					YAROSLAVSKAYA OBLAST							
					15, 18. Рыбинск							
I	1	6	0.4	22	11	23		0.3	32	21	9	17
	7	10		21	10	23			35	22	12	17
	13	21	2	25	23	22		1	29	23	9	20
	19	5		21	11	22		0.2	32	20	9	17
II	1	8		11	10	13		0.2	28	21	8	17
	7	20		16	16	14		0.2	32	22	11	16
	13	23	1	19	19	20	0.8	1	27	17	9	14
	19	10		12	9	10		0.7	29	18	8	15
III	1	7	0.9	13	10	9		0.5	26	14	6	12
	7	30	2	16	14	14	0.2	0.2	27	19	8	14
	13	29	2	24	15	14	5	1	25	11	5	11
	19	21		18	14	11	0.3	1	27	14	5	13
IV	1	11	0.3	10	7	4	0.2	1	27	12	3	13
	7	25	0.5	13	23	8	1.2	2	33	10	3	12
	13	31	0.7	18	20	10	22	8	27	10	2	13
	19	32	1	14	17	8	3	6	38	10	2	13
V	1	15	0.4	8	13	3	1	5	44	6	1	10
	7	25	2	14	27	5	8	8	34	6	2	11
	13	31	1	13	14	5	49	20	33	5		9
	19	34	3	13	22	6	13	18	50	5	10	9.
VI	1	28	1	8	22	3	2	13	49	4		8
	7	37	2	10	28	5	13	11	30	5	1	10
	13	38	2	14	20	5	58	25	30	2	0.6	9
	19	45	1	12	22	4	22	24	45	3	0.2	8
VII	1	23	0.6	7	22	2	2	13	49	4	0.8	8
	7	36	3	10	30	4	13	12	33	6	1	11
	13	36	1	13	21	2	63	26	28	4	0.2	8
	19	46	2	13	24	5	26	27	45	3	0.2	7
VIII	1	12	0.4	6	14	2	0.6	11	38	5	0.6	8
	7	33	3	11	29	6	8	10	40	6	3	13
	13	35	2	12	19	6	55	23	36	4	0.5	8
	19	44	2	9	23	7	13	21	50	4	0.3	8
IX	1	10	0.3	6	15	5	1	7	46	8	1	13
	7	26	1	9	30	6	5	10	47	10	4	18
	13	31	2	10	21	6	37	20	40	8	1	16
	19	29	2	10	19	6	4	16	54	9	0.5	16
X	1	9	0.4	11	11	6	0.8	4	48	12	5	16
	7	31	2	14	25	11	0.5	4	54	15	6	21
	13	32	1	13	20	9	11	11	50	13	4	21
	19	12	0.7	10	11	4	0.6	7	52	11	4	17
XI	1	10	0.5	16	10	11		1	36	18	13	18
	7	25	2	13	13	9		1	40	16	16	20
	13	27	1	15	20	9	3	2	37	4	16	19
	19	9		13	12	7	0.3	1	36	19	16	21
XII	1	4		16	9	17	0.2	0.8	35	19	16	20
	7	14		14	18	22		0.2	35	22	17	22
	13	23	1	20	28	19	0.5	2	30	23	18	20
	19	10		15	8	17		1	36	20	17	19

KALININSKAYA OBLAST

51. Вышний Волочек

Month	Hrs.	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
I	1	7		9	10	29	0.1	0.7	13	36	17	12
	7	9		6	13	26	0.1	0.5	16	36	19	12
	13	22	0.7	7	23	34	2	2	12	35	12	19
	19	9	0.7	3	14	25		1	12	31	19	11
II	1	8		6	12	25	0.3	0.4	13	32	16	12
	7	12	1	10	22	29	0.6	0.6	13	40	15	14
	13	22	1	10	19	26	4	3	13	31	9	16
	19	6		6	8	25	0.1	0.6	13	33	12	13
III	1	8	0.2	7	10	15	0.1	0.3	11	21	12	8
	7	27	1	10	24	20	2	0.8	14	28	12	11
	13	27	1	14	15	17	11	4	13	17	11	13
	19	22	1	6	15	18	0.7	0.7	18	20	11	11
VI	1	8	0.2	4	10	8	2	1	18	15	9	10
	7	26	2	10	23	17	3	2	17	18	7	15
	13	25	1	10	14	15	32	12	16	14	5	20
	19	30	2	6	22	17	4	7	32	12	6	17
V	1	11	0.2	3	13	7	1	4	33	8	5	11
	7	19	1	8	29	15	9	4	20	9	6	16
	13	16	1	9	13	12	52	21	22	6	3	18
	19	27	0.5	6	23	13	15	13	36	7	4	15
VI	1	22	0.7	2	21	10	2	7	31	9	2	13
	7	28	0.7	6	29	9	12	7	16	9	4	15
	13	25	1	8	17	9	59	27	15	6	2	18
	19	34	1	6	26	11	26	20	30	5	2	12
VII	1	22	0.8	3	18	8	4	7	32	6	3	12
	7	31	2	5	31	11	14	5	16	7	6	15
	13	31	2	6	18	8	66	25	14	5	2	18
	19	40	2	8	28	11	27	19	31	5	2	14
VIII	1	11	0.3	3	13	7	0.9	3	25	9	4	11
	7	26	3	5	33	14	6	3	20	8	11	15
	13	27	2	8	20	12	58	19	18	5	2	18
	19	35	2	5	28	13	14	12	37	5	3	12
IX	1	7	0.2	4	13	9	1	2	28	13	5	13
	7	24	1	4	32	15	3	2	24	16	13	21
	13	22	0.4	7	21	14	41	17	25	8	6	26
	19	19	0.6	5	23	14	4	7	40	9	5	18
X	1	8	0.3	3	10	12	0.3	1	27	20	14	20
	7	25	2	4	29	24	1	1	26	20	20	27
	13	22	2	5	21	20	15	11	28	16	14	32
	19	6	0.3	1	12	16	0.4	2	38	17	12	17
XI	1	11		5	11	18	0.4	0.7	21	26	26	15
	7	20		5	13	20	1	1	19	29	28	22
	13	27	0.8	7	18	23	4	4	19	26	24	24
	19	8		4	11	15	0.5	1	24	23	26	14
XII	1	7	1	5	12	18	0.3	0.9	17	32	26	13
	7	5	0.5	9	12	24	0.5	1	16	36	25	14
	13	21	1	8	25	30	2	2	16	32	25	21
	19	8		5	15	23	0.1	0.3	18	32	26	15

Month	hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
					73. Калинин							
I	1	6		7	4	11			31	25	20	22
	7	16		7	5	13			34	26	19	23
	13	24	3	9	14	15	0.3	1	30	29	18	29
	19	8		6	7	8		0.2	30	25	18	23
II	1	5		7	4	10	0.2		33	24	16	21
	7	20	0.6	8	6	10			35	27	18	24
	13	24	1.2	12	11	12	2	2	30	25	14	25
	19	7		7	7	10		0.2	32	25	11	23
III	1	9		7	5	6			25	21	11	18
	7	28	1	14	17	8		0.2	29	24	13	20
	13	32	2	17	10	9	8	2	27	20	7	20
	19	22	0.3	10	8	10		0.5	28	21	9	13
IV	1	9	0.3	6	9	4		1	32	15	2	13
	7	23	1	14	16	9	2	3	34	16	4	17
	13	27	2	12	12	9	30	11	31	14	4	16
	19	21		12	13	8	2	0	45	14	2	15
V	1	8	0.2	3	6	2	0.2	7	45	8	0.6	8
	7	24	1	8	19	4	5	4	38	11	2	14
	13	21	2	8	11	4	48	21	32	8	2	12
	19	24	2	8	15	6	10	20	53	8	0.8	9
VI	1	21		4	12	1	0.8	12	50	7	0.3	8
	7	37	2	7	23	4	8	8	34	9	4	13
	13	29	0.6	9	11	2	60	26	26	8	0.8	10
	19	38	2	6	18	2	17	30	46	4	0.3	8
VII	1	18	0.4	2	9	2	1	10	50	7	1	8
	7	32	2	7	23	4	6	8	34	10	4	16
	13	25	2	7	9	4	61	27	29	5	0.9	11
	19	38	2	7	18	5	18	33	46	5	0.8	7
VIII	1	11		4	8	2	0.5	8	39	8	2	9
	7	31	3	7	25	8	4	8	38	12	7	19
	13	26	2	6	17	6	54	30	30	8	0.6	15
	19	32	2	9	17	3	7	25	56	8	0.5	11
IX	1	7		3	9	4	0.3	4	43	12	4	13
	7	28	2	6	19	8	0.6	4	44	16	10	22
	13	25	3	8	11	4	38	22	39	11	4	17
	19	17	1	5	12	3	0.7	14	57	11	1	13
X	1	5		2	7	4		1	44	18	8	19
	7	27	2	5	18	9		2	44	24	12	27
	13	24	2	9	14	7	14	11	43	19	10	24
	19	12		2	8	4	0.3	4	46	18	8	19
XI	1	5		5	5	4		0.2	37	21	19	20
	7	20		8	11	8		0.3	33	25	23	27
	13	34	2	10	10	8	3	3	30	28	19	30
	19	12		4	6	6		0.9	33	21	20	21
XII	1	12		4	6	9		0.2	28	26	28	25
	7	14		6	7	7		0.5	33	25	28	24
	13	32	2	7	16	8		0.5	28	28	27	29
	19	16	0.6	4	7	5		0.3	32	27	25	27

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb

MOSKOVSKAYA OBLAST

121. Москва, с.-х. академия

I	1	8		6	11	19	1	0.1	27	23	20	4
	7	12	1	6	15	21	0.4	0.1	27	26	23	3
	13	18	3	17	26	23	4	0.8	28	24	18	4
	19	8	0.4	5	14	17	1	0.3	29	21	19	2
II	1	8	0.8	5	13	19	0.4	0.4	24	22	20	2
	7	15	2	4	25	28	0.9	0.1	26	26	24	4
	13	24	4	12	24	29	4	0.7	21	18	18	4
	19	8		4	17	19	1	0.1	25	21	17	3
III	1	6	0.3	3	12	10	1	0.3	20	24	12	2
	7	25	0.6	12	21	12	2	0.4	22	25	15	2
	13	28	1	17	23	17	11	2	24	16	11	4
	19	18	0.8	6	18	13	4	0.7	27	31	11	2
IV	1	7	0.2	2	16	6	3	1	25	13	8	1
	7	22	1	9	32	13	6	1	29	13	10	3
	13	27	2	14	26	14	35	5	27	10	5	3
	19	25	2	10	32	16	10	4	37	13	7	4
V	1	12	0.4	2	19	6	6	3	27	9	4	2
	7	28	3	8	33	7	12	2	27	10	5	4
	13	24	2	9	25	9	55	8	27	8	2	4
	19	30	2	7	38	10	25	7	36	8	3	4
VI	1	20	0.3	3	24	6	8	2	32	6	3	2
	7	32	2	8	31	7	14	2	24	8	3	5
	13	32	2	9	29	8	64	10	57	7	2	4
	19	36	3	8	35	10	34	8	30	7	3	2
VII	1	17	0.2	3	30	6	8	3	30	6	4	1
	7	39	3	11	41	8	16	2	23	7	5	3
	13	31	2	9	34	8	67	13	19	7	3	2
	19	37	2	10	44	9	38	11	34	7	4	3
VIII	1	8		2	20	4	6	3	27	7	3	2
	7	31	5	8	39	11	10	1	32	8	5	4
	13	30	0.7	9	32	10	58	9	26	7	3	4
	19	31	2	10	42	12	22	10	41	5	4	4
IX	1	7	0.4	4	24	6	5	2	35	11	3	3
	7	26	4	8	38	10	9	2	40	11	10	5
	13	27	3	10	32	13	40	8	35	10	5	6
	19	20	1	6	32	9	11	5	43	10	4	7
X	1	9	0.6	3	16	7	5	1	46	15	10	4
	7	27	3	3	32	15	6	2	45	18	12	7
	13	29	1	6	28	10	23	5	43	13	10	7
	19	10	0.3	4	22	7	6	2	46	13	11	4
XI	1	6		5	14	17	3	0.5	32	19	24	3
	7	15	0.5	4	32	17	4	0.5	36	20	25	4
	13	28	2	9	24	17	8	1	37	19	22	5
	19	8		2	16	15	2	0.3	36	19	22	4
XII	1	6	0.5	4	12	16	1	0.4	34	21	22	3
	7	10	0.6	7	18	17	0.7	0.4	34	21	27	3
	13	21	6	12	26	21	3	1	32	21	24	6
	19	8		4	16	18	2	0.4	36	20	24	3

VLADIMIRSKAYA OBLAST

186. Муром

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
I	1	5		11	7	19		0.5	11	29	26	14
	7	6		8	7	25		0.2	14	29	25	15
	13	19	0.4	17	14	21	0.9	2	15	24	20	11
	19	5		8	6	16	0.2	0.2	14	26	24	14
II	1	2		8	6	19		0.2	12	27	19	12
	7	13		11	10	14		0.2	16	27	22	11
	13	16	0.9	12	13	16	3	0.8	16	20	14	7
	19	5		8	1	12	0.5	0.2	13	25	16	11
III	1	5		8	8	14		0.3	10	20	17	12
	7	20	0.6	13	16	12	0.4	0.6	15	25	14	11
	13	21		17	12	14	7	2	14	15	9	10
	19	17		11	9	15	0.8	0.8	18	18	12	13
IV	1	6		5	7	7	0.8	0.3	16	13	9	12
	7	17	0.2	11	24	12	4	3	20	13	7	13
	13	19		17	20	11	3.4	9	19	10	4	12
	19	20		12	17	10	6	6	34	11	2	14
V	1	7		4	13	8	2	5	27	10	3	11
	7	23	0.8	11	38	9	10	6	15	12	3	14
	13	22	0.4	12	26	8	57	14	14	10	0.6	15
	19	23	0.6	10	30	10	20	17	34	7	0.9	11
VI	1	17		7	16	4	4	9	30	6	1	8
	7	25	0.8	9	35	5	12	6	13	7	1	10
	13	24		9	25	6	72	22	14	3	0.5	9
	19	34	0.4	10	37	7	39	18	22	4	0.3	8
VII	1	11	0.2	5	17	4	3	8	34	6	1	8
	7	22	1	5	39	8	10	8	16	6	4	12
	13	21	0.4	9	30	5	76	24	15	3	0.3	8
	19	31	0.7	9	39	8	37	23	28	3	0.3	7
VIII	1	7		4	13	4	1	5	19	7	4	7
	7	22	1	7	34	9	9	6	19	7	5	11
	13	21	0.5	10	26	6	64	17	17	4	9	8
	19	29		9	33	7	20	14	33	4	8	6
IX	1	6		2	13	5	1	3	25	13	6	14
	7	15	0.5	8	29	11	4	5	31	12	6	16
	13	18	0.7	8	26	7	15	15	26	10	2	14
	19	18		7	20	11	6	13	43	11	2	15
X	1	2		4	9	8	0.5	1	29	18	17	19
	7	20	0.7	4	20	11	1	3	33	23	12	26
	13	19	1	7	25	10	20	9	32	18	9	24
	19	6	0.3	3	10	9	2	5	36	17	10	20
XI	1	4	0.4	5	5	10	0.2	0.2	17	21	28	15
	7	18		11	12	11	0.7	1	26	23	22	21
	13	27	0.8	12	16	10	6	2	20	21	22	17
	19	7		5	4	11	0.3	0.5	20	21	26	18
XII	1	4		6	5	21		0.2	13	28	34	15
	7	10		5	6	20		0.2	16	29	34	16
	13	15		8	14	15	2	2	19	25	29	15
	19	3		5	8	12	0.3	0.6	18	27	30	16

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb

SMOLENSKAYA OBLAST

190. Вязьма

I	1	9		4	9	19		0.6	22	19	36	11
	7	14	0.6	6	7	20		0.2	20	22	39	11
	13	27	1	6	21	20	1	0.8	22	20	29	15
	19	12		5	9	17		0.5	22	21	33	11
II	1	12	1	6	10	16		0.2	20	24	23	12
	7	19	0.6	2	15	20		0.2	20	25	28	14
	13	30	2	8	22	24	2	1	17	20	20	16
	19	19	0.4	3	16	16	0.2	1	21	22	20	12
III	1	18		2	10	14		0.3	18	18	22	8
	7	33	1	5	18	16	0.2	0.2	18	18	26	12
	13	29	0.8	9	15	19	9	0.8	18	12	18	12
	19	31	0.6	6	17	14	0.3	0.9	22	15	16	11
IV	1	18		4	14	9	1	2	26	10	7	8
	7	35	1	6	27	12	3	1	23	11	9	10
	13	34	1	10	21	11	37	5	20	9	6	11
	19	36	2	8	25	13	7	5	31	7	5	9
V	1	21	0.2	2	16	7	1	4	33	7	2	7
	7	35	1	3	33	8	6	3	24	7	5	11
	13	31	2	7	18	8	61	12	19	4	1	9
	19	43	1	7	27	9	19	13	35	5	1	8
VI	1	35	0.2	2	28	8	1	7	36	4	1	7
	7	39	3	4	40	9	10	3	18	6	4	10
	13	37	3	8	21	9	68	13	14	3	1	8
	19	48	3	7	29	11	27	17	24	3	1	6
VII	1	35	1	0.4	27	8	2	5	32	5	3	7
	7	40	2	5	38	10	8	2	22	6	8	11
	13	41	0.9	7	22	10	69	15	12	5	1	10
	19	52	4	7	36	10	28	19	27	3	0.9	7
VIII	1	23	0.4	0.2	25	8	0.3	7	26	5	5	8
	7	40	1	2	38	10	5	3	21	7	13	12
	13	37	2	6	27	10	60	13	16	5	2	9
	19	47	1	4	33	11	18	16	32	3	2	7
IX	1	18	0.9	2	18	8	0.8	3	35	7	7	11
	7	37	2	2	31	14	2	2	29	8	13	14
	13	36	2	5	24	13	47	10	27	7	2	14
	19	35	1	4	26	11	5	9	41	8	2	12
X	1	12	0.8	3	17	10	0.2	0.6	39	11	14	12
	7	30	0.8	4	28	15	0.6	0.6	37	16	20	17
	13	31	1	3	22	15	20	5	40	9	13	17
	19	21	0	2	18	10	0.8	2	44	13	12	12
XI	1	13		4	14	10	0.2	0.3	34	19	28	12
	7	26		2	19	12		0.2	34	18	30	12
	13	34	0.5	5	20	15	4	2	29	17	30	16
	19	18	0.4	5	14	10	0.2	0.7	28	19	28	12
XII	1	6		3	8	19	0.3		23	25	34	16
	7	15		3	7	16	0.2		26	22	36	14
	13	28	2	9	20	22	0.3	0.8	24	22	32	19
	19	17	0.7	3	8	19		0.3	22	22	34	16

[redacted]

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb
					211. Смоленск							
I	1	10		7	8	20		1	26	23	23	25
	7	11	2	4	18	16		0.6	28	28	24	29
	13	31	2	8	23	16	0.8	4	25	24	27	27
	19	11		2	16	18		0.8	25	24	24	25
II	1	15	0.6	4	11	16		0.9	23	25	16	26
	7	25	1	6	24	18		0.7	28	21	22	22
	13	33		9	24	20	0.4	3	21	19	22	23
	19	16		4	20	12		2	21	25	16	25
III	1	14		3	10	9	0.2	0.4	21	15	11	16
	7	29	0.4	4	21	13		1	20	19	17	19
	13	35	0.4	6	19	15	3	4	18	13	14	17
	19	29		6	15	12	0.2	2	24	13	13	15
IV	1	15	0.6	2	16	4		4	25	12	3	14
	7	31	0.9	5	30	7	1	4	25	13	7	17
	13	36	0.9	6	21	8	26	16	26	10	5	16
	19	41	0.3	4	29	7	2	11	36	11	3	14
V	1	14	0.2	1	20	3	2	9	30	7	1	8
	7	37	2	4	36	7	8	6	26	8	7	12
	13	32	0.2	4	18	6	57	22	23	6	1	11
	19	43	0.2	6	29	5	12	22	40	8	0.9	10
VI	1	23		2	18	2	3	14	40	5	2	8
	7	39		4	38	5	12	8	25	8	8	11
	13	34		7	22	4	61	27	19	5	2	9
	19	44	0.2	7	35	8	22	28	38	4	0.2	6
VII	1	19	0.5	0.9	23	2	0.6	10	32	6	2	8
	7	44	1	3	39	5	6	7	20	7	11	12
	13	37		2	23	3	60	28	16	6	2	9
	19	55	0.4	6	35	5	20	27	34	4	1	8
VIII	1	18	0.3	2	18	2	0.2	9	28	8	2	9
	7	37	0.8	4	41	7	5	7	25	10	13	13
	13	32	0.3	5	28	4	52	27	20	7	3	11
	19	48	0.7	4	39	8	10	22	40	6	2	10
IX	1	14	0.3	2	17	2	0.6	6	33	9	3	11
	7	36	0.3	2	34	8	1	4	31	10	19	14
	13	33	0.9	6	26	6	40	18	31	8	6	14
	19	31	0.3	4	26	5	2	13	46	8	2	11
X	1	12	0.8	3	19	4		3	41	14	9	16
	7	31	2	4	31	7	0.2	2	39	17	18	21
	13	33	1	6	27	6	16	13	37	12	13	18
	19	20	0	2	20	6	0.4	4	46	11	8	15
XI	1	9		4	15	4		2	35	19	22	21
	7	31		5	22	8		2	37	17	25	19
	13	38	0.6	8	24	5	2	3	28	17	28	22
	19	13		0.6	15	6	0.2	2	36	17	23	19
XII	1	11		4	11	10		2	27	24	25	25
	7	17		2	17	13		1	29	22	29	23
	13	37		6	27	12	0.2	3	25	24	26	28
	19	17		2	14	5		2	27	24	25	25

[redacted]

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb

KALUZHSKAYA OBLAST

225. Калуга

I	1	6		8	5	10			39	18	18	18
	7	6		6	11	9	0.2		39	22	19	21
	13	13		11	12	15	0.4	0.2	34	25	16	23
	19	4		7	5	10	0.2	0.2	37	20	13	19
II	1	3	0.9	9	5	9		0.2	32	19	11	18
	7	14	2	15	12	10	0.2	0.2	35	22	14	20
	13	14	1	16	10	15	2	0.6	32	18	12	14
	19	6	0.4	11	5	9	0.2	0.6	32	20	9	15
III	1	3		6	6	6	0.2	0.5	33	15	8	12
	7	18	2	13	10	7	0.4	0.4	34	18	11	15
	13	19	0.6	14	9	16	6	1	26	14	9	14
	19	15		9	8	9	0.7	0.7	35	14	9	13
IV	1	5	0.3	6	6	5	2	1	35	8	3	7
	7	17	0.6	11	15	6	2	3	42	9	4	10
	13	19	1	12	12	8	26	5	36	8	2	9
	19	20	0.3	11	13	8	4	4	47	10	1	10
V	1	6		4	6	2	5	3	37	6	0.5	7
	7	18	1	11	19	5	8	4	37	7	2	9
	13	18	0.9	10	9	6	56	7	30	5	0.5	6
	19	24	1	12	11	5	15	8	52	3	0.7	6
VI	1	11		6	12	0.5	8	6	44	4	0.9	3
	7	24	2	8	24	3	14	5	40	5	3	6
	13	21	0.7	7	13	4	65	10	26	4	1	4
	19	32	0.9	10	16	3	24	14	42	3	0.7	4
VII	1	12		2	8	0.2	5	7	44	4	1	3
	7	26	0.4	7	20	3	11	6	39	6	5	9
	13	19	0.6	6	14	3	68	14	28	3	0.8	4
	19	30	0.2	9	19	3	22	14	47	3	0.2	3
VIII	1	8		3	9	2	4	6	40	4	2	4
	7	23	1	7	23	6	8	6	44	5	6	8
	13	20	1	6	11	5	61	9	37	4	0.8	6
	19	34	0.6	8	15	2	18	12	53	3	0.5	4
IX	1	3	0.2	3	8	1	4	4	44	6	2	6
	7	18	0.5	4	16	5	6	3	50	7	7	10
	13	17	1	7	13	5	44	7	50	6	0.5	8
	19	19	0.2	7	12	3	10	6	58	7	0.7	8
X	1	8		3	9	3	2	2	48	12	5	13
	7	19	1	11	18	5	2	1	50	15	9	17
	13	16	1	9	16	7	17	5	55	11	6	14
	19	8		4	9	2	3	2	56	11	4	11
XI	1	4		7	7	3	0.9	0.2	43	16	15	15
	7	17		10	12	4	2	0.6	40	21	18	22
	13	23	0.5	8	14	7	4	1	41	18	17	20
	19	8		5	8	3	1	0.5	40	18	14	19
XII	1	4		8	8	9	0.3		38	18	24	17
	7	12		6	9	9	0.5		38	19	24	20
	13	16	2	9	10	9	2	1	35	21	25	20
	19	3		10	4	6	0.8	0.2	37	18	20	19

[redacted]

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb

RYAZANSKAYA OBLAST

237. Рязань

I	1	5	0.7	12	6	11	0.3		22	16	30	9
	7	9		8	13	13	0.3	0.3	25	18	33	11
	13	18	0.7	14	16	18	0.1	0.1	23	17	27	11
	19	7		7	8	9			20	16	27	10
II	1	8		10	7	12	0.3	0.2	18	15	24	12
	7	13	0.8	10	12	14	0.2		22	18	27	13
	13	22	2	14	13	20	0.3	0.2	18	17	22	11
	19	9		9	10	10	0.2		16	18	23	12
III	1	8		7	8	8	0.1	0.3	16	13	23	8
	7	25	0.2	10	17	14	0.3	0.6	21	13	23	10
	13	22	0.2	12	14	16	2	0.8	19	12	19	8
	19	20	0.3	9	15	11	0.1	0.4	20	14	19	11
IV	1	8	0.2	3	12	6	0.1	0.7	21	8	13	6
	7	19	2	11	25	13	2	0.4	24	8	13	6
	13	21	1	11	15	9	25	4	28	7	11	6
	19	21	1	11	20	13	3	5	31	8	12	7
V	1	8		4	13	8	0.4	3	26	6	9	5
	7	23	1	7	31	10	5	2	23	8	8	8
	13	23	1	9	15	8	42	9	28	6	5	6
	19	38	1	7	24	8	8	10	35	6	5	5
VI	1	21	0.2	4	18	7	2	4	30	3	3	3
	7	31	0.9	8	29	8	7	3	17	5	6	5
	13	26	0.1	6	14	4	54	9	27	3	2	4
	19	35	0.3	10	25	10	18	11	27	3	3	3
VII	1	16		1	19	6	0.9	5	28	4	3	4
	7	29	0.7	5	32	11	6	2	20	8	5	7
	13	25	0.9	5	15	6	57	11	28	5	1	5
	19	35	0.6	6	24	11	15	14	30	4	2	4
VIII	1	8		3	13	5	0.5	4	23	4	2	4
	7	24	0.9	4	31	10	4	4	24	6	7	5
	13	22	1	4	20	8	50	10	28	4	2	4
	19	33	1	5	27	10	8	9	35	4	2	4
IX	1	7	0.2	4	16	8	0.8	1	27	7	3	6
	7	21	0.2	4	34	12	3	1	30	7	7	7
	13	21	0.7	7	21	11	31	7	36	6	4	6
	19	22	0.4	7	24	12	3	5	38	7	4	7
X	1	8	0.3	3	16	8	0.5	0.1	40	9	13	9
	7	26	1	6	26	13	1	0.8	41	11	17	11
	13	23	2	6	23	12	12	3	42	11	15	12
	19	11		4	20	9	0.1	2	40	10	12	9
XI	1	10		7	10	9	0.7	0.4	29	13	27	10
	7	19	0.4	7	20	11	1	0.1	31	15	29	10
	13	26	2	9	18	8	3	0.7	30	16	29	8
	19	6		4	10	8	0.7		28	13	30	9
XII	1	8		8	6	11	0.3	0.1	26	16	31	10
	7	8		5	13	12	0.3	0.3	26	17	38	11
	13	21	1	12	16	13	0.3	0.9	24	19	35	12
	19	9		3	11	10			26	15	34	10

[redacted]

Month	Hrs	Ci	Cc	Cs	Ac	As	Cu	Cb	Sc	Ns	St	Frnb

TUL'SKAYA OBLAST

255. Тула

I	1	4		4	11	23		0.4	22	24	18	18
	7	5		6	15	20	0.4	0.4	24	27	21	19
	13	19	1	12	23	28	1	2	21	23	18	18
	19	2		6	10	19		0.4	21	20	19	15
II	1	5		4	9	21		0.4	21	21	15	13
	7	12	1	8	22	27		0.6	23	26	18	17
	13	20	2	12	17	24	2	2	18	22	13	16
	19	5	0.3	4	13	14	0.2	0.9	20	20	13	14
III	1	2	0.5	4	12	12		0.8	18	17	13	15
	7	22	4	6	21	20		0.6	20	20	16	16
	13	24	1	9	17	19	7	2	17	15	10	14
	19	10	1	6	1[illegible]	16	0.4	1	20	17	12	16
IV	1	6	1	3	12	10	0.3	2	20	11	9	9
	7	20	1	10	24	14	2	3	23	11	12	10
	13	21	1	10	19	12	31	12	22	9	7	11
	19	21	0.6	7	20	14	4	9	31	10	7	9
V	1	6	0.3	3	15	11	2	7	24	8	3	7
	7	21	3	7	31	16	6	7	25	8	4	10
	13	25	2	7	20	8	48	19	24	7	2	8
	19	29	2	8	26	10	11	19	41	6	2	5
VI	1	12	1	2	19	9	2	13	31	4	0.8	3
	7	31	2	4	32	12	8	10	26	3	3	5
	13	28	3	4	19	6	56	23	22	3	1	5
	19	36	3	6	30	10	20	26	32	3	0.9	4
VII	1	8	0.6	1	16	8	2	13	29	4	0.8	4
	7	27	2	4	32	14	8	11	29	5	3	8
	13	29	3	4	21	8	60	26	22	4	0.5	6
	19	38	2	6	30	10	21	29	32	4	0.6	4
VIII	1	5	0.5	1	14	7	0.8	10	22	4	3	4
	7	24	3	5	34	13	4	11	27	5	8	8
	13	24	2	5	20	7	51	24	26	4	2	6
	19	32	1	3	31	10	11	23	37	3	1	5
IX	1	6	0.4	3	17	8	0.7	7	30	6	4	6
	7	20	1	5	28	14	4	9	38	21	7	9
	13	24	2	7	21	10	32	21	34	6	3	8
	19	17	0.4	3	21	13	4	14	42	7	2	8
X	1	6	0.3	4	18	13	0.4	2	34	12	13	10
	7	20	2	4	30	17	1	3	37	14	16	17
	13	23	2	5	22	13	16	10	40	12	13	14
	19	6		2	14	10	2	4	38	11	11	12
XI	1	3	0.9	3	13	13	0.1	0.6	27	17	23	16
	7	18		4	19	14	0.3	0.7	27	20	25	19
	13	24	1	6	20	13	4	3	26	17	26	17
	19	4	0.4	3	12	11	0.3	0.7	27	16	25	15
XII	1	2	0.5	6	12	20	0.1	0.3	22	20	27	18
	7	5	2	5	10	20	0.1	0.6	21	24	29	20
	13	12	0.9	4	16	22	2	2	21	20	18	19
	19	5		2	10	17		0.7	19	20	28	16

Table 9. Recurrence of various gradations of low cloud cover with certain gradations of total cloud cover (%).

Cloud cover (points) Total	Low	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Год
							YAROSLAVSKAYA OBLAST							
							6. Пошехонье-Володарск							
0–2	0–2	16	22	27	32	30	32	34	37	25	15	13	13	24
3–7	0–2	2	2	3	6	3	8	8	7	5	2	2	1	4
	3–7	1	2	2	4	12	9	10	9	5	4	2	1	5
8–10	0–2	14	19	20	16	19	17	14	13	13	10	9	13	15
	3–7	0	0	1	2	1	5	4	4	4	1	0	0	2
	8–10	67	55	47	40	35	29	30	30	48	68	74	72	50
							15, 18. Рыбинск							
0–2	0–2	15	21	25	29	27	28	27	32	22	14	12	12	22
3–7	0–2	4	4	5	8	8	9	11	10	6	3	2	2	6
	3–7	1	1	2	4	9	11	11	10	7	4	2	1	5
8–10	0–2	14	14	17	14	11	12	10	9	9	7	8	10	11
	3–7	1	1	2	4	8	9	9	7	6	3	0	2	4
	8–10	65	59	49	41	37	31	32	32	50	69	76	73	52
							21. Тутаев							
0–2	0–2	14	20	24	24	23	23	20	23	16	11	11	8	19
3–7	0–2	6	7	9	10	10	13	12	12	8	5	5	5	8
	3–7	2	2	3	7	10	12	15	12	9	5	2	2	6
8–10	0–2	18	17	18	17	14	11	11	12	12	9	9	12	14
	3–7	2	2	2	4	8	11	10	8	5	4	2	1	5
	8–10	58	52	44	38	35	30	32	33	50	66	71	72	48
							KALININSKAYA OBLAST							
							46. Бежецк							
0–2	0–2	17	18	27	28	27	27	25	31	21	15	14	13	22
3–7	0–2	4	5	7	9	9	13	14	10	7	4	3	3	7
	3–7	1	1	2	6	11	11	12	11	7	4	2	1	6
8–10	0–2	14	17	19	16	13	11	10	11	15	11	7	10	13
	3–7	0	1	1	4	7	9	10	7	5	3	1	1	4
	8–10	64	58	44	37	33	29	29	30	45	63	73	72	48
							51. Вышний Волочек							
0–2	0–2	15	20	26	29	29	28	28	29	24	17	12	12	22
3–7	0–2	3	3	7	7	6	7	9	7	5	3	3	2	5
	3–7	2	2	3	6	11	13	14	11	8	5	2	2	7
8–10	0–2	12	13	15	14	12	12	11	12	11	8	6	8	11
	3–7	1	1	2	3	5	7	8	7	6	2	1	0	4
	8–10	67	61	47	41	37	33	30	34	46	65	76	76	51

[redacted]

Cloud cover (points) Total	Low	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Год
							73. Калинин							
0–2	0–2	14	18	24	26	25	24	23	25	21	15	13	11	20
3–7	0–2	3	3	5	6	6	9	8	7	5	3	2	2	5
	3–7	2	2	3	6	12	12	14	12	9	6	2	2	7
8–10	0–2	5	7	11	11	8	7	6	7	6	6	4	5	7
	3–7	2	3	3	7	8	10	11	9	6	2	2	1	5
	8–10	74	67	54	44	41	38	38	40	53	68	77	79	56
							89. Ржев							
0–2	0–2	12	18	24	27	27	26	26	28	23	16	13	11	21
3–7	0–2	3	2	5	5	5	8	8	6	5	4	2	1	4
	3–7	2	2	1	6	9	10	10	9	7	4	2	2	5
8–10	0–2	6	9	11	12	9	10	9	8	8	4	3	4	8
	3–7	1	1	3	3	6	7	8	7	4	4	1	1	4
	8–10	76	68	56	47	44	39	39	42	53	68	79	81	58
							MOSKOVSKAYA OBLAST							
							121. Москва, с.-х. академия							
0–2	0–2	16	17	24	26	27	28	27	27	24	15	13	11	21
3–7	0–2	2	5	6	8	10	12	11	10	8	4	4	2	7
	3–7	2	2	3	6	9	11	14	11	8	5	2	2	6
8–10	0–2	11	14	15	14	11	10	10	11	10	9	6	8	11
	3–7	2	2	2	6	8	9	9	9	5	2	2	1	5
	8–10	67	60	50	40	35	30	29	32	45	65	73	76	50
							146. Можайск							
0–2	0–2	15	18	24	28	28	27	28	29	24	17	14	13	22
3–7	0–2	3	4	6	7	8	10	10	8	11	2	3	5	6
	3–7	2	1	2	5	9	12	12	10	4	7	2	2	6
8–10	0–2	12	15	14	16	12	14	11	12	8	12	8	5	12
	3–7	0	2	2	4	7	7	9	7	8	0	2	1	4
	8–10	68	60	52	40	36	30	30	34	45	62	71	74	50
							VLADIMIRSKAYA OBLAST							
							186. Муром							
0–2	0–2	20	26	29	34	34	37	37	39	30	21	19	16	28
3–7	0–2	2	3	5	6	6	14	13	11	6	3	2	2	6
	3–7	1	1	1	5	7	6	6	5	6	3	2	1	4
8–10	0–2	13	13	17	15	15	8	6	9	12	7	8	6	11
	3–7	0	1	1	2	5	11	11	9	4	2	0	1	4
	8–10	64	56	47	38	33	24	27	27	42	64	69	74	47

[redacted]

Cloud cover (points) Total	Low	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Год

SMOLENSKAYA OBLAST

194. Велиж

0–2	0–2	15	18	26	25	28	28	26	29	24	16	11	12	22
3–7	0–2	1	2	4	7	8	9	10	7	4	3	3	2	5
	3–7	2	2	3	6	10	13	14	12	10	5	3	2	7
8–10	0–2	8	11	14	14	13	13	12	11	13	8	4	3	10
	3–7	0	1	1	4	6	6	7	5	3	2	1	1	3
	8–10	74	66	52	44	35	31	31	36	46	66	78	80	53

199. Вязьма

0–2	0–2	13	17	22	25	26	24	25	26	22	15	12	11	20
3–7	0–2	1	3	4	6	8	9	10	9	7	3	2	2	5
	3–7	2	2	2	6	9	10	9	8	7	5	2	1	5
8–10	0–2	9	13	16	20	18	22	19	18	15	10	7	7	15
	3–7	1	2	3	5	9	11	12	10	8	3	2	2	6
	8–10	74	63	53	38	30	24	25	29	41	64	75	77	49

211. Смоленск

0–2	0–2	14	17	25	25	28	26	26	26	24	16	11	11	21
3–7	0–2	2	5	7	8	9	10	11	11	8	5	4	3	7
	3–7	3	2	2	8	13	14	16	13	10	6	2	2	7
8–10	0–2	8	9	11	13	11	10	11	8	10	6	5	4	9
	3–7	2	2	4	6	9	12	10	11	7	4	2	2	6
	8–10	71	65	51	40	30	28	26	31	41	63	76	78	50

KALUZHSKAYA OBLAST

225. Калуга

0–2	0–2	17	20	27	30	32	31	33	34	30	20	16	14	25
3–7	0–2	1	3	3	4	5	7	7	6	4	3	1	2	4
	3–7	2	2	3	6	10	13	12	11	8	5	3	2	6
8–10	0–2	9	11	13	13	12	14	10	10	9	7	5	5	10
	3–7	1	1	1	3	5	4	5	5	4	2	1	1	3
	8–10	70	63	53	44	36	31	33	34	45	63	74	76	52

232. Жиздра

0–2	0–2	18	21	27	29	33	32	35	33	30	20	17	14	25
3–7	0–2	2	4	5	9	8	10	9	8	4	3	3	2	6
	3–7	2	2	4	7	13	15	15	13	10	7	2	2	8
8–10	0–2	5	8	9	9	7	10	8	8	9	7	4	3	7
	3–7	0	1	0	3	4	4	4	4	2	1	1	0	2
	8–10	73	64	55	43	35	29	29	34	45	62	73	79	52

Cloud cover (points) Total	Low	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Year
							RYAZANSKAYA OBLAST							
							234. Елатьма							
0–2	0–2	21	25	28	32	33	36	35	36	30	20	18	16	27
3–7	0–2	2	4	4	6	7	10	9	8	6	4	2	2	5
	3–7	1	1	2	5	8	9	10	9	6	3	2	1	5
8–10	0–2	17	16	19	16	15	15	14	16	13	8	9	8	14
	3–7	1	1	1	3	4	5	6	5	3	1	0	1	3
	8–10	58	53	46	38	33	25	26	26	42	64	69	72	46
							237. Рязань							
0–2	0–2	20	23	27	29	30	30	31	33	29	19	17	15	25
3–7	0–2	3	3	5	6	8	12	11	9	7	4	3	3	6
	3–7	1	2	2	5	8	11	10	10	7	4	2	2	5
8–10	0–2	9	14	14	15	14	14	12	13	14	9	8	6	12
	3–7	1	0	2	3	5	6	6	5	3	1	0	0	3
	8–10	66	58	50	42	35	27	30	30	40	63	70	74	49
							246. Павелец							
0–2	0–2	20	23	27	29	32	33	33	35	32	22	19	15	27
3–7	0–2	3	4	5	7	9	11	10	10	7	4	4	4	7
	3–7	1	1	2	4	7	10	10	7	6	3	1	1	4
8–10	0–2	20	22	24	21	20	18	18	20	20	15	12	12	18
	3–7	0	0	0	4	5	6	7	6	4	2	1	0	3
	8–10	56	50	42	35	27	22	22	22	31	54	63	68	41
							TUL'SKAYA OBLAST							
							255. Тула							
0–2	0–2	16	19	25	27	29	29	29	30	27	18	16	14	23
3–7	0–2	4	5	6	8	9	12	11	11	8	5	3	3	7
	3–7	2	2	3	7	12	15	14	13	9	5	3	2	7
8–10	0–2	7	10	12	13	10	9	8	8	9	8	6	5	9
	3–7	2	2	2	5	8	9	11	9	7	4	1	2	5
	8–10	69	62	52	40	32	26	27	29	40	60	71	74	49
							262. Волово							
0–2	0–2	21	24	28	28	32	32	33	34	31	20	18	15	26
3–7	0–2	3	3	5	7	8	14	10	10	8	6	3	2	7
	3–7	1	2	2	7	12	13	15	12	9	5	2	1	7
8–10	0–2	9	12	15	17	15	12	11	13	14	10	7	6	12
	3–7	1	0	0	2	3	6	6	5	3	1	0	1	2
	8–10	65	59	50	39	30	23	25	26	35	58	70	75	46

SECTION II

FOGS

Table 1. Mean number of days with fog.

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X–III	IV–IX	Year
	YAROSLAVSKAYA OBLAST															
2	Владычное	2	2	3	3	2	2	3	5	6	5	4	3	19	21	40
3	Гаютино	2	2	3	4	1	0.2	0.2	0.9	2	3	2	3	15	8	23
5	Семеновское	2	2	2	2	0 6	0.7	2	3	4	4	4	3	17	13	30
6	Пошехонье-Володарск	3	3	3	3	1	0.8	2	3	3	4	3	3	19	13	32
7	Пустынь и Ильинское	3	3	3	3	1	1	3	4	5	5	5	4	23	17	40
9	Шарна	2	2	3	3	2	2	4	6	5	4	4	3	13	22	40
10	Брейтово	1	1	1	3	1	0 5	0.5	0.8	2	2	2	1	8	8	16
12	Мыс Рожновский	2	2	3	2	1	1		2	2	2	3	3	15	8	23
13	Данилов	2	2	2	3	1	0 8	2	3	4	4	4	3	17	14	31
14	Игнатово	3	2	3	3	1	0 6	1	2	3	5	4	3	20	11	31
15	Рыбинск, ГМО	2	3	3	3	2	0.7	0.8	1	2	2	3	3	16	10	26
16	Коприно	3	3	3	3	1	0.6	1	2	4	4	3	4	20	12	32
20	Обухово	3	3	3	3	2	2	4	5	6	4	5	4	22	22	44
21	Тутаев	3	3	3	2	0.8	0.8	2	4	4	3	4	3	19	14	33
22	Мышкино	2	3	3	3	1	0.8	2	3	5	3	4	3	18	15	33
24	Некрасовское	2	2	3	2	1	0.6	2	3	4	4	4	3	18	13	31
25	Ярославль	4	4	3	3	2	1	3	4	5	4	4	4	23	18	41
26	Углич	2	2	3	2	0 8	0.6	1	2	3	3	3	2	15	10	25
27	Взуля	3	3	5	4	2	2	2	4	5	5	5	4	25	19	44
28	Симаницы	2	2	4	2	1	1	1	2	4	4	4	3	19	11	30
29	Вёска	1	2	2	2	2	2	3	5	4	3	3	2	13	18	31
30	Высоково	1	1	2	2	2	2	2	5	4	4	3	2	13	17	30
31	Ростов	2	2	3	2	1	0.3	1	2	4	3	4	3	17	10	27
33	Переславль-Залесский	2	2	2	2	1	0.6	0.8	2	2	3	3	3	15	9	24
34	Успенский с.-х. техникум	2	3	3	3	1	0.8	1	3	4	6	6	5	25	13	38
	KALININSKAYA OBLAST															
35	Весьегонск	2	2	3	2	0.8	0.4	1	3	4	5	3	2	17	11	28
36	Кесьма	3	3	4	3	0.4	1	2	3	4	4	6	5	25	13	38
38	Стяжки	2	2	2	4	2	2	3	5	5	5	4	3	18	21	39
39	Котлован	2	2	2	2	0.8	1	2	4	6	3	2	2	13	16	29
40	Красный Холм	3	3	4	3	1	0.9	2	3	5	4	5	4	23	15	38
42	Бологое	3	3	3	3	2	2	3	4	5	5	5	4	23	19	42
43	Залучье	2	2	3	3	2	1	2	3	4	4	5	3	19	15	34
45	Максатиха	0.9	1	2	2	1	0.6	1	2	3	2	2	2	10	10	20
46	Бежецк	4	4	4	3	1	0 8	2	4	4	4	5	4	25	15	40
51	Вышний Волочек	3	3	3	2	1	0 9	2	3	4	4	4	3	20	13	33
52	Ряд	4	5	5	3	1	1	2	3	5	5	6	4	29	15	44
53	Толмачи	3	3	3	3	2	0 8	2	4	5	5	5	5	24	17	41
55	Кашин	4	3	4	3	1	1	2	3	4	5	6	6	28	14	42
57	Семеновское	3	2	3	2	0.6	0.6	2	2	3	4	5	4	21	11	32
58	Ивановское	3	3	4	3	2	1	2	3	4	4	4	3	21	15	36
59	Осташков	3	2	4	3	2	1	2	3	5	4	4	3	20	16	36
60	Горицы	3	4	4	3	2	1	2	5	6	5	5	5	26	19	45
61	Лихославль	3	3	3	4	1	0 8	2	4	5	6	5	4	24	17	41
62	Тропца-Нерль	2	2	3	2	1	1	2	5	6	5	4	3	19	17	36
64	Кувшиново	3	3	3	3	2	2	3	5	6	5	4	4	22	21	43
65	Торжок	3	4	4	3	1	1	2	3	4	4	5	4	24	14	38
66	Вселуки	2	3	4	4	2	2	2	4	5	4	3	3	19	19	38
68	Яровинка	2	2	3	4	2	2	3	5	6	5	4	3	19	22	41
69	Изведово	2	3	4	2	0.9	0.9	2	5	6	4	3	3	19	17	36
72	Савелово	2	2	3	2	1	1	2	4	5	4	3	3	17	15	32
73	Калинин	4	4	3	3	2	1	3	5	6	4	4	3	22	20	42
74	Пьянково	2	3	3	3	4	5	6	7	7	4	4	3	19	32	51
75	Бдынь	1	2	2	2	3	3	5	6	7	5	3	3	16	26	42
78	Конаково	2	2	2	2	1	1	2	3	4	3	2	2	13	13	26
79	Редкино, ТОС	2	2	2	3	1	1	2	5	6	4	3	2	15	18	33
80	Луковниково	5	5	5	5	3	2	3	5	6	6	6	7	34	25	59
82	Старица	2	2	3	3	2	0.9	2	4	4	4	5	3	19	16	35
83	Тургиново	2	2	2	2	1	0 8	2	4	5	3	3	2	14	15	29
84	Торопец	4	4	5	3	2	2	3	4	6	5	5	5	28	20	48
85	Молодой Туд	2	2	3	2	1	1	2	4	5	5	4	4	20	15	35
87	Хлопово-Городище	1	2	3	3	1	0.8	2	3	4	5	4	4	19	14	33
88	Западная Двина	2	2	3	2	2	1	2	3	4	4	5	4	20	14	34
89	Ржев	4	4	4	3	1	1	2	3	4	4	5	4	25	14	39
90	Нелидово	3	4	4	4	1	1	2	4	5	5	5	5	26	17	43
91	Мостовая	4	4	4	3	2	2	3	4	5	5	4	4	25	19	44
92	Никулино	4	4	4	3	2	2	3	4	5	5	4	4	25	19	44
93	Большое Кобяково	2	3	3	3	2	1	2	4	4	4	4	3	19	16	35
95	Щучье	3	4	6	4	1	3	4	6	6	6	5	6	30	24	54
	MOSKOVSKAYA OBLAST															
96	Дубна	2	2	2	2	2	1	2	3	3	3	4	4	17	13	30
98	Нушполы	3	3	2	2	2	1	2	5	5	5	5	5	24	17	41
102	Клин	3	3	2	2	2	0.9	3	4	4	4	4	4	20	16	36

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X–III	IV–IX	Year
103	Дмитров	3	3	2	2	2	2	2	4	4	4	5	4	21	16	37
104	Загорск	4	4	4	3	2	1	2	5	5	5	6	5	28	18	46
109	Шаховская	2	2	2	2	1	1	2	5	3	3	4	2	15	14	29
110	Волоколамск	2	2	3	3	2	1	3	5	4	4	5	4	20	18	38
117	Починки	1	2	2	2	1	0.8	1	3	2	3	3	1	12	10	22
118	Ново-Иерусалим	3	2	3	3	2	2	3	5	4	4	4	3	19	19	38
120	Лосиноостровская	2	1	2	2	0.6	0.4	0.6	2	3	3	2	2	12	9	21
121	Москва, с.-х. академия	3	3	3	2	0.7	0.6	1	3	3	4	4	3	20	11	31
122	Павловская слобода	2	2	2	2	1	0.8	0.5	4	4	4	5	3	18	13	31
123	Тушино	5	4	4	3	1	1	2	3	4	5	5	4	27	14	41
124	Москва, ВДНХ	3	3	3	2	0.6	0.4	0.8	2	2	3	4	2	18	8	26
126	Москва, Сокольники	4	4	4	2				1	1	3	4	2	21	4	25
129	Павловский Посад	2	2	3	3	1	0.8	1	3	3	4	4	4	19	12	31
130	Москва, ГМО	3	3	3	1	0.1	0.1		1	1	2	3	3	17	3	20
131	Подмосковная	1	2	3	3	1	1	2	3	3	3	3	2	14	13	27
134	Москва, МГУ	4	5	4	3	1	1	1	4	5	6	6	5	30	15	45
138	Быково	5	4	4	3	0.9	0.5	2	3	4	4	5	5	27	13	40
140	Собакино	3	3	3	3	1	0.7	1	3	3	4	4	4	21	12	33
142	Куровское	2	2	2	2	0.4	0.7	1	2	2	2	3	2	13	8	21
143	Кривандино	3	3	3	3		2	2	3	3	3	5	3	20	13	33
145	Верусти	3	2	3	3	1	0.6	2	3	4	4	5	3	20	14	34
146	Можайск	4	3	3	3	2	2	2	4	4	5	5	4	24	17	41
148	Макарово	2	3	3	3	2	1	2	3	3	4	3	3	18	14	32
151	Наро-Фомиск	2	2	3	3	2	2	3	5	4	3	4	3	17	19	36
154	Старый Спас	3	3	2	2	1		2	3	5	5	4	3	20	13	33
155	Хлевино	2	3	3	3	2	1	3	3	4	4	3	4	19	16	35
156	Коломна	3	2	2	2	0.9	0.3	2	3	4	4	4	3	18	12	30
157	Михнево	3	3	3	3	1	1	2	4	4	4	5	4	22	15	37
161	Серпухов	3	3	3	2	1	0.6	0.9	2	3	3	3	4	19	10	29
163	Кашира	4	4	4	4	2	1	2	4	4	5	8	7	32	17	49
	VLADIMIRSKAYA OBLAST															
166	Суздаль	2	2	3	2	1	0.3	0.6	2	2	3	4	3	17	8	25
167	Санниково и Яблонцы	2	2	2	3	2	2	4	5	5	4	4	3	17	21	38
168	Александров	4	3	4	4	2	1	2	4	5	5	7	6	29	18	47
170	Ковров	2	1	2	2	0.8	0.6	1	2	3	3	4	2	14	10	24
171	Вязники	3	2	3	3	1	1	2	3	3	3	4	4	19	13	32
172	Троицы	2	2	2	2	1	2	2	3	3	3	5	5	19	13	32
176	Владимир	2	3	3	3	2	1	2	4	5	5	5	5	23	17	40
180	Селиванское оп. поле	1	1	2	3	0.9	0.5	1	2	2	3	3	2	12	10	22
181	Петушки	2	2	3	3	1	1	2	3	4	4	5	5	21	14	35
183	Мошок	2	2	2	3	1	0.8	2	3	3	4	5	3	18	13	31
184	Крюково	1	1	2	3	1	0.8	2	3	3	4	4	3	15	13	28
185	Гусь-Хрустальный	3	2	3	3	1	1	2	3	4	4	5	4	21	14	35
186	Муром	3	3	3	3	0.6	0.6	1	2	3	4	5	4	22	11	33
187	Черсево	1	1	2	2	1	2	2	3	3	3	3	3	13	13	26
188	Меленки	3	4	4	4	1	0.9	1	4	4	5	4	4	24	15	39
	SMOLENSKAYA OBLAST															
191	Сычевка	2	2	3	2	0.6	2	2	3	4	4	3	3	17	14	31
193	Болшево	3	3	4	4	2	2	3	4	6	6	5	5	26	21	47
194	Велиж	4	4	3	3	2	2	3	5	6	5	5	4	25	21	46
195	Гжатск	3	3	4	2	1	2	3	4	5	5	4	4	23	17	40
196	Ново-Пречистое	4	4	4	4	2	1	3	4	5	5	7	6	30	19	49
197	Устье	2	2	4	3	2	2	3	4	5	5	5	3	21	19	40
198	Демидов	5	5	5	3	2	2	3	5	6	6	6	5	32	21	53
199	Вязьма	5	5	6	4	2	2	2	4	5	7	8	8	39	19	58
201	Духовщина	5	4	4	4	1	1	2	3	4	5	6	7	31	15	46
202	Надежда	3	4	5	3	2	1	2	4	5	5	4	6	27	17	44
203	Сафоново	5	5	6	3	2	1	2	3	5	5	7	8	36	16	52
205	Темкино	2	2	3	2	0.6	0.7	2	3	3	4	5	3	19	12	31
206	Шокино	5	5	5	4	1	0.8	2	3	5	7	8	8	38	16	54
207	Рудня	5	5	6	3	2	1	2	3	5	6	7	8	37	16	53
211	Смоленск	10	7	7	5	2	2	3	4	6	8	10	10	52	22	74
212	Ельня	6	5	6	4	2	1	2	3	5	6	7	7	37	17	54
213	Починок	8	7	7	4	2	0.9	2	3	5	7	9	9	47	17	64
215	Ускосы	3	4	5	3	2	2	3	4	5	6	6	6	30	19	49
216	Александровка	3	3	5	4	1	1	2	3	4	6	6	6	29	15	44
217	Рославль	7	7	8	4	2	1	3	3	4	7	10	9	48	17	65
218	Ершичи	3	3	4	3	2	1	2	3	4	5	6	6	27	15	42
	KALUZHSKAYA OBLAST															
219	Малоярославец	3	2	3	3	2	1	2	3	3	4	6	4	22	14	36
220	Малахово	1	2	3	4	2	2	3	4	5	5	4	3	18	20	38
222	Беликово	2	3	3	4	2	2	3	4	5	5	5	4	22	20	42
224	Мосальск	4	4	5	3	1	1	2	3	3	5	6	5	29	13	42
225	Калуга	3	3	4	3	1	1	2	3	4	5	6	6	27	14	41

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X–III	IV–IX	Year
226	Спас-Деменск	5	5	6	3	1	1	2	4	4	5	7	7	35	15	50
227	Соболевка	4	5	6	4	1	2	2	4	5	6	8	7	36	18	54
228	Сухиничи	3	3	5	3	0.9	0.8	1	2	3	5	6	6	28	11	39
229	Фачисовая и Киров	4	4	5	3	1	1	2	3	4	5	7	6	31	14	45
230	Козельск	2	3	5	4	3	2	3	5	5	5	5	4	24	22	46
232	Жиздра	3	3	4	3	1	0.8	2	3	4	4	6	5	25	14	39
	RYAZANSKAYA OBLAST															
233	Тума	3	2	3	3	1	0.5	1	3	3	3	5	4	20	12	32
234	Елатьма	4	3	4	4	0.6	0.8	2	2	2	4	6	4	25	12	37
236	Рыбное и Старое Веселово	4	4	4	4	1	0.7	1	2	2	2	4	6	24	11	35
237	Рязань	5	4	5	4	0.7	0.7	1	2	2	3	5	6	28	11	39
238	Кадом	3	3	3	3	1	1	1	2	2	3	4	3	19	10	29
239	Сасово	4	3	4	3	0.7	0.8	1	2	2	4	5	4	24	10	34
240	Шилово	2	2	3	2	0.6	0.8	1	2	2	3	3	3	16	9	25
241	Старожилово	3	3	4	4	0.6	0.4	0.7	2	1	4	4	5	23	9	32
242	Михайлов	4	4	5	3	0.8	0.6	0.8	2	2	4	5	6	28	10	38
243	Шацк	3	2	3	3	0.9	0.9	2	2	2	3	4	3	18	11	29
245	Скопин	5	6	6	4	0.8	0.2	0.3	1	3	6	7	7	37	9	46
246	Павелец	7	6	6	5	1	0.8	1	2	2	5	9	10	43	12	55
247	Ряжск	3	3	4	3	0.7	0.6	0.5	2	2	3	4	5	22	10	32
248	Верда	4	4	5	4	2	1	1	2	2	4	5	7	29	12	41
	TUL'SKAYA OBLAST															
252	Алексин	2	3	3	4	2	0.9	2	4	4	4	4	4	20	17	37
253	Венев	6	5	6	4	1	0.6	1	3	4	5	8	8	38	14	52
254	Ханино	4	4	5	4	2	1	2	3	5	6	6	5	30	17	47
255	Тула	5	5	5	4	2	1	2	4	5	5	5	5	30	18	48
256	Узловая	6	5	7	5	1	0.9	2	3	3	6	8	8	40	15	55
257	Орлово	5	5	6	4	2	2	3	6	6	6	6	7	35	23	58
259	Белев	4	3	4	3	0.6	0.6	0.6	2	2	3	5	6	25	10	35
261	Плавск и Паточная	4	4	5	6	2	0.7	1	1	2	5	6	4	28	13	41
262	Волово	10	8	9	6	2	0.9	2	3	3	7	12	13	59	17	76
263	Чернь и Скуратово	9	7	8	5	0.8	0.5	1	2	3	6	11	10	51	13	64
264	Архангельское	8	6	6	5	2	1	2	3	3	6	12	11	49	16	65
265	Ефремов	7	6	6	4	2	0.6	2	2	2	5	10	9	43	13	56

Table 1a. Greatest number of days with fog.

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X–III	IV–IX	Year
	YAROSLAVSKAYA OBLAST															
2	Владычное	9	10	8	8	6	5	8	10	10	11	8	10	34	32	56
5	Семеновское	4	8	6	9	4	5	7	7	9	10	7	8	27	27	51
6	Пошехонье-Володарск	6	10	9	8	5	4	5	8	10	11	10	9	31	23	43
9	Шарна	6	9	7	8	6	5	6	8	9	10	11	9	31	29	52
13	Данилов	6	9	5	8	5	3	7	8	8	12	13	10	33	25	55
15	Рыбинск, ГМО	8	10	8	8	4	2	2	4	6	7	6	7	31	17	35
16	Коприно	8	8	8	8	6	3	4	9	8	8	9	12	31	22	48
20	Обухово	8	9	8	9	8	5	10	12	12	7	14	10	39	32	57
21	Тутаев	8	9	10	7	3	3	7	9	10	8	11	9	38	26	50
24	Некрасовское	6	7	8	6	4	3	5	9	10	12	9	13	34	21	57
25	Ярославль	9	14	7	6	5	6	7	11	10	13	9	13	37	37	52
26	Углич	5	7	10	8	5	4	4	7	9	7	9	10	27	23	38
33	Переславль-Залесский	6	8	8	8	4	3	4	5	7	7	8	12	31	16	41
34	Успенский с-х техникум	7	9	10	10	5	5	4	9	12	13	13	17	41	25	61
	KALININSKAYA OBLAST															
35	Весьегонск	9	6	7	6	4	2	6	9	10	14	8	5	31	21	40
39	Котлован	13	5	9	9	4	5	6	8	12	8	4	11	24	27	45
40	Красный Холм	9	7	9	9	5	3	6	10	11	10	11	12	34	26	53
42	Бологое	9	6	8	10	6	6	9	15	10	12	11	15	38	30	72
45	Максатиха	5	7	10	6	3	3	5	8	7	7	9	4	22	19	41
46	Бежецк	10	8	10	8	5	3	5	9	8	8	11	9	38	28	57
51	Вышний Волочек	8	6	8	8	3	4	7	10	11	9	9	13	30	30	64
53	Толмачи	8	8	7	7	6	3	5	9	9	11	11	16	37	28	60
55	Кашин	7	7	11	9	4	2	6	9	9	10	12	16	43	25	56
59	Осташков	7	6	13	10	5	4	8	7	14	10	9	12	32	27	61
64	Кувшиново	9	8	9	9	5	7	10	12	10	13	10	15	36	36	63
65	Торжок	9	9	12	11	3	5	5	11	8	11	15	16	40	31	61
72	Савелово	8	6	10	7	6	4	6	9	16	7	13	6	32	25	58
73	Калинин	12	10	12	8	6	4	6	11	14	10	12	11	36	34	59

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X–III	IV–IX	Year
83	Тургиново	4	5	6	6	4	3	6	10	13	10	10	6	26	31	52
84	Торопец	11	7	10	6	5	6	7	10	14	10	12	12	43	33	71
88	Западная Двина	7	7	8	6	3	3	4	8	12	8	14	13	43	25	58
89	Ржев	12	8	11	6	3	6	6	8	8	13	10	11	41	21	52
	MOSKOVSKAYA OBLAST															
102	Клин	14	10	8	8	5	2	8	10	8	9	10	9	28	24	54
103	Дмитров	10	7	8	7	6	4	7	8	7	10	12	9	35	32	53
110	Волоколамск	5	6	10	7	4	4	6	10	9	12	10	11	34	26	55
117	Починки	5	5	7	6	4	3	4	11	6	7	7	10	23	17	39
118	Ново-Иерусалим	7	7	9	8	7	5	7	11	10	9	10	10	33	35	55
120	Лосиноостровская	7	6	6	5	2	2	4	5	9	11	6	7	28	13	36
121	Москва, с.-х. академия	10	9	8	8	4	3	5	7	9	9	12	13	35	23	49
129	Павловский Посад	6	7	7	7	8	4	5	9	8	14	10	11	38	25	62
130	Москва, ГМО	11	10	7	4	3	1		3	5	6	8	10	34	10	38
142	Куровское	6	9	6	11	3	4	4	5	6	7	7	8	24	16	31
145	Черусти	9	7	11	8	7	2	5	9	10	11	10	8	35	36	58
146	Можайск	8	12	7	7	6	7	6	11	10	18	10	10	41	22	54
151	Наро-Фоминск	7	7	10	7	5	5	8	10	13	11	9	11	30	32	50
156	Коломна	8	.	9	5	4	3	5	8	10	10	8	11	31	17	58
157	Михнево	7	10	9	7	4	5	7	11	7	12	10	12	34	30	54
161	Серпухов	11	7	12	7	4	3	3	6	7	8	8	9	28	19	42
163	Кашира	10	13	9	15	5	6	8	11	9	13	16	15	50	26	75
	VLADIMIRSKAYA OBLAST															
166	Суздаль	7	10	9	9	4	2	2	8	6	6	9	15	36	15	43
168	Александров	9	13	10	9	4	6	6	8	9	12	12	9	38	25	66
171	Вязники	8	7	11	7	3	4	6	10	8	12	8	13	35	23	50
176	Владимир	7	12	9	9	6	4	7	9	11	9	13	19	56	28	63
181	Петушки	12	9	7	8	6	5	7	10	9	11	11	14	31	27	55
183	Мошок	8	7	6	12	6	4	4	7	7	12	13	9	35	26	61
185	Гусь-Хрустальный	6	9	7	9	4	5	5	8	9	11	9	10	31	25	53
186	Муром	11	8	9	12	2	3	4	6	6	9	12	12	35	16	51
188	Меленки	10	9	8	12	3	3	3	9	15	15	14	14	47	34	62
	SMOLENSKAYA OBLAST															
194	Велиж	11	11	8	6	4	4	6	10	11	11	11	10	44	28	58
195	Гжатск	7	5	10	6	3	5	9	8	11	15	12	10	35	34	63
196	Ново-Пречистое	11	9	8	10	5	4	9	9	9	11	12	16	54	30	72
198	Демидов	11	11	11	7	5	4	9	10	17	12	14	10	65	30	77
199	Вязьма	9	11	12	8	4	6	5	9	11	13	15	19	60	33	89
203	Сафоново	11	11	12	6	5	5	6	7	10	12	18	15	51	27	79
205	Темкино	6	8	9	6	3	3	5	8	7	12	9	13	34	19	45
207	Рудня	12	12	11	10	4	5	5	9	12	12	13	17	52	30	76
211	Смоленск	16	14	15	11	5	6	5	10	14	16	19	17	63	31	94
212	Ельня	13	12	14	8	6	4	8	9	10	11	14	15	55	34	78
213	Починок	16	12	16	11	4	4	4	9	11	15	14	16	60	27	78
217	Рославль	12	13	14	10	6	6	5	8	11	13	17	21	64	24	79
	KALUZHSKAYA OBLAST															
219	Малоярославец	7	7	12	9	5	4	4	7	8	12	11	14	41	21	56
224	Мосальск	9	10	11	10	5	4	4	8	6	10	13	16	48	21	55
225	Калуга	8	8	14	10	4	3	6	7	8	13	13	16	46	25	63
226	Спас-Деменск	12	13	12	7	4	4	6	10	10	11	13	14	52	26	70
228	Сухиничи	6	7	10	13	3	3	5	6	6	13	13	18	48	26	58
229	Фаянсовая и Киров	10	14	11	13	3	3	6	6	9	14	13	15	38	24	69
232	Жиздра	8	8	11	11	4	4	5	7	12	11	12	13	40	25	61
	RYAZANSKAYA OBLAST															
233	Туча	11	8	9	7	4	3	5	6	6	13	10	7	33	18	41
234	Елатьма	10	10	11	8	3	5	5	5	5	10	14	18	47	17	54
237	Рязань	10	12	14	9	3	3	6	5	4	8	10	13	46	16	59
239	Сасово	8	9	14	9	3	3	6	5	5	7	9	8	36	21	49
240	Шилово	9	8	10	7	3	5	5	5	5	7	8	19	31	15	41
241	Старожилово	9	9	11	9	4	2	3	5	3	10	12	15	44	15	46
242	Михайлов	12	8	11	9	2	4	4	6	4	8	14	18	55	18	53
243	Шацк	7	8	13	6	4	3	7	8	7	9	10	13	47	21	43
246	Павелец	14	16	14	14	5	3	7	6	6	13	16	23	66	27	77
247	Ряжск	8	7	10	8	2	4	2	7	4	6	9	13	40	14	45
	TUL'SKAYA OBLAST															
256	Узловая	12	15	18	12	4	3	6	7	7	15	14	22	63	24	79
259	Белев	12	8	9	15	3	2	4	6	6	10	11	17	46	21	61
262	Волово	16	16	19	16	9	3	7	7	9	15	17	25	82	38	95
263	Чернь и Скуратово	13	13	17	14	3	4	6	6	7	14	14	21	70	19	80

Table 2. Recurrence of various number of days with fog, by months (%).

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
YAROSLAVSKAYA OBLAST												
2. Владычное												
0	21	24	21	16	28	18	4	4		4	4	20
1–2	50	44	30	24	48	52	56	14	12	24	29	28
3–4	12	12	29	28	16	26	20	32	30	24	38	24
5–6	13	12	16	20	8	4	16	27	16	28	21	16
7–8			4	12			4	13	26	8	8	8
9–10	4	8						10	16	8		4
11–12										4		
6. Пошехонье-Володарск												
0	4	11	3	11	52	45	24	7	3	7	3	3
1–2	48	45	42	38	35	45	31	56	35	25	42	49
3–4	24	21	32	31	10	10	42	28	38	42	24	21
5–6	24	13	10	17	3		3	3	18	17	28	21
7–8		7	6	3				6	3	6		3
9–10		3	7						3		3	3
11–12										3		
13. Данилов												
0	28	24	17	17	38	49	18	21	14		14	18
1–2	38	46	45	46	59	41	52	32	14	20	11	24
3–4	24	21	31	13		10	20	34	31	42	31	31
5–6	10	3	7	17	3		7	3	35	25	28	21
7–8		3		7			3	10	6	7	10	
9–10		3								3	3	6
11–12										3		
13–14											3	
15. Рыбинск, ГМО												
0	27	16	5	16	22	42	47	21	11	26	11	26
1–2	33	44	23	49	61	58	53	58	58	32	42	16
3–4	28	17	45		17			21	26	32	37	27
5–6	6	17	16	12					5	5	10	21
7–8	6		11	23						5		10
9–10		6										
21. Тутаев												
0	21	7	11	21	55	38	35	7	7	11	4	11
1–2	35	42	42	31	38	59	53	17	14	29	25	32
3–4	35	35	24	28	7	3	6	45	38	32	35	24
5–6	3	7	14	17			3	21	29	17	10	27
7–8	6	6	3	3			3	7	4	11	17	3
9–10		3	6					3	8		3	3
11–12											3	
13–14											3	
25. Ярославль												
0	11	11	7	21	31	41	14		4	11	4	14
1–2	22	36	24	35	52	38	39	24	20	28	27	14
3–4	31	28	42	17	10	18	25	28	27	21	35	33
5–6	24	17	24	27	7	3	18	25	19	24	21	29
7–8	8		3				4	11	15	7	13	4
9–10	4	4						8	15	6		3
11–12								4				
13–14		4								3		3

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
26. Углич												
0	24	25	14	35	55	66	35	14	7	21	7	14
1–2	49	55	45	28	35	28	45	55	32	28	31	49
3–4	24	17	31	31	7	6	20	14	34	38	42	28
5–6	3		4	3	3			14	24	6	11	6
7–8		3	3	3				3		7	6	
9–10			3						3		3	3
33. Переславль-Залесский												
0	25	32	21	32	50	60	57	35	14	10	4	21
1–2	50	50	35	43	39	36	36	22	50	32	28	32
3–4	18	11	25	11	11	4	7	35	22	46	49	14
5–6	7		11	8				4	7	8	8	18
7–8		7	8	3					7	4	11	11
9–10								4				
11–12				3								4

KALININSKAYA OBLAST

42. Бологое												
0	11	3	10	21	24	31	17	3		4	4	4
1–2	34	45	39	35	59	42	32	25	7	28	11	33
3–4	25	28	31	25	14	24	24	28	31	17	33	26
5–6	24	24	17	10	3	3	21	25	28	25	33	22
7–8	3		3	3			3	13	28	18	15	7
9–10	3			6			3	3	6	4		4
11–12										4	4	
13–14												
15–16								3				4
46. Бежецк												
0	10	4	7	25	29	52	18	7		4	4	4
1–2	25	32	31	36	53	34	47	28	17	36	11	25
3–4	35	28	21	21	11	14	28	35	44	35	29	32
5–6	14	16	18	7	7		7	21	25	11	35	7
7–8	8	18	15	11				6	14	14	14	21
9–10	8		8					3				11
11–12											7	
51. Вышний Волочек												
0	17	3	17	13	41	52	14	7	7		4	17
1–2	24	47	33	47	42	35	52	46	6	28	28	36
3–4	40	33	23	23	17	13	24	24	47	28	35	21
5–6	13	17	17	10				10	24	31	17	17
7–8	6		10	7			10	3	10	10	13	3
9–10								10	3	3	3	3
11–12									3			
13–14												3
53. Толмачи												
0	4	4	7	11	37	48	15	7		4	4	4
1–2	44	47	48	41	37	48	52	37	19	27	22	18
3–4	33	26	30	19	15	4	29	22	26	23	19	18
5–6	8	15	11	22	11		4	22	44	15	20	37
7–8	11	8	4	7				8	7	15	8	4
9–10								4	4	8	19	11
11–12										8	8	4
13–14												
15–16												4

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
55. Кашин												
0	11	3	3	18	35	31	17	11	3	7	7	
1–2	17	34	32	31	45	69	70	32	20	14	11	11
3–4	35	46	35	21	20		10	38	30	35	14	42
5–6	27	14	20	17			3	13	27	21	24	18
7–8	10	3	7	10				3	17	17	31	17
9–10				3				3	3	6		4
11–12			3								13	4
13–14												
15–16												4
59. Осташков												
0	11	7	10	14	24	35	20	11		7		18
1–2	47	50	32	31	42	55	54	30	24	35	21	25
3–4	20	32	25	42	27	10	10	30	33	25	43	24
5–6	18	11	20	10	7		13	26	23	18	21	21
7–8	4		10				3	3	14	7	8	8
9–10				3						8	7	
11–12									3			4
13–14			3						3			
64. Кувшиново												
0	14	14	11	18	11	28	17	7	3	4	11	7
1–2	46	36	29	28	53	49	22	17	10	18	26	33
3–4	28	32	30	25	32	17	34	29	7	34	11	26
5–6	4	10	18	15	4	3	14	24	46	22	22	22
7–8	4	8	8	7		3	10	17	20	7	15	4
9–10	4		4	7			3	3	14	11	15	4
11–12								3				
13–14										4		
15–16												4
65. Торжок												
0	15	11	11	21	29	46	21	10		8	4	7
1–2	14	18	18	25	57	39	46	39	29	30	22	33
3–4	42	38	31	25	14	11	29	14	39	33	30	23
5–6	18	11	28	18		4	4	22	21	11	19	22
7–8	4	18	4	7				7	11	7	14	7
9–10	7	4	4					4		7	7	4
11–12			4	4				4		4		
13–14												
15–16											4	4
73. Калинин												
0	11	4	11	24	21	34	7	3		7	7	7
1–2	25	31	34	38	59	49	31	22	10	29	20	32
3–4	36	25	28	14	17	17	38	24	32	21	32	38
5–6	18	18	21	7	3		24	17	28	22	22	11
7–8	4	18		17				21	17	14	7	8
9–10	3	4	3					10	6	7	8	
11–12	3		3					3			4	4
13–14									7			
83. Тургиново												
0	22	30	22	26	37	44	22	11	11	15	11	31
1–2	45	33	41	30	48	52	45	26	12	31	38	42
3–4	33	30	26	33	15	4	15	29	22	19	27	19
5–6		7	11	11			18	11	30	19	20	8
7–8								15	11	8		
9–10								8	7	8	4	
11–12									4			
13–14									3			

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
84. Торопец												
0	4	7		11	14	21	7	4		4		
1–2	18	25	7	32	46	46	53	25	11	19	16	18
3–4	49	32	49	32	36	25	33	28	14	26	20	30
5–6	18	25	25	25	4	8		21	35	30	28	26
7–8		11	11				7	18	18	7	28	11
9–10	7		8					4	11	14	4	11
11–12	4								7		4	4
13–14									4			
88. Западная Двина												
0	31	15	8	19	15	35	8	8		4	8	4
1–2	23	50	42	44	54	57	61	26	27	32	16	24
3–4	30	23	31	22	31	8	31	54	27	28	24	36
5–6	8	8	15	15				8	30	12	28	24
7–8	8	4	4					4	4	24	16	4
9–10									8		4	4
11–12									4			
13–14											4	4

MOSKOVSKAYA OBLAST

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
102. Клин												
0	14	14	11	25	25	36	11	7		14	7	4
1–2	35	43	50	36	56	64	42	25	31	25	28	32
3–4	21	22	31	24	15		28	34	35	27	25	35
5–6	22	11	4	7	4		15	17	21	21	25	25
7–8	4	7	4	8			4	14	13	10	11	
9–10		3						3		3	4	4
11–12												
13–14	4											
103. Дмитров												
0	4	13	8	13	25	17	12	4	4			
1–2	40	50	39	58	58	67	50	25	12	42	23	27
3–4	31	13	25	17	13	16	26	34	46	17	32	36
5–6	8	16	4	8	4		8	21	25	16	23	32
7–8	13	8	4	4			4	16	13	21	14	
9–10	4									4	4	5
11–12											4	
110. Волоколамск												
0	15	21	14	14	11	35	11	7	3	14		10
1–2	43	47	28	35	67	50	43	11	39	32	22	32
3–4	28	21	35	18	22	15	35	35	31	11	30	32
5–6	14	11	11	22			11	14	10	18	26	14
7–8			8	11				27	7	14	14	8
9–10			4					6	10	7	8	
11–12										4		4
117. Починки												
0	36	23	18	43	39	48	39	18	9	17	17	35
1–2	54	59	48	35	53	48	35	48	52	26	30	44
3–4	5	14	21	13	8	4	26	13	35	36	31	17
5–6	5	4	9	9				4	4	17	13	
7–8			4					13		4	9	
9–10												4
11–12								4				

[redacted] [redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
118. Ново-Иерусалим												
0	24	24	18	14	17	14	14	7	7	17	11	32
1–2	28	42	49	31	42	62	38	14	21	28	25	21
3–4	24	21	11	20	24	21	28	35	32	18	22	21
5–6	21	10	14	21	10	3	13	21	22	17	18	14
7–8	3	3	4	14	7		7	10	4	17	20	8
9–10			4					3	14	3	4	4
11–12								10				
121. Москва, с.-х. академия												
0	16	16		20	40	60	40	21	17	8	4	17
1–2	20	40	36	36	44	32	36	29	29	42	38	17
3–4	40	24	32	28	16	8	20	29	21	12	13	41
5–6	12	16	28	8			4	17	17	26	21	17
7–8	8		4	8				4	12	8	16	4
9–10	4	4							4	4		
11–12											8	
13–14												4
130. Москва, ГМО												
0	47	21	22	21	95	95	100	37	47	11	16	21
1–2	11	37	26	58		5		58	32	50	32	37
3–4	16	21	37	21	5			5	16	28	21	21
5–6	10	11	10						5	11	16	5
7–8	11	5	5								15	11
9–10		5										5
11–12	5											
146. Можайск												
0	11	11	11	7	14	31	18	14	7	8		4
1–2	21	42	26	45	73	42	45	21	28	19	12	36
3–4	28	25	26	14	10	17	24	21	27	30	34	28
5–6	29	14	26	31	3	7	13	24	28	20	19	16
7–8	11	4	11	3		3		17		15	23	12
9–10								—	10		12	4
11–12		4						3		4		
13–14												
15–16												
17–18										4		
157. Михнево												
0	10	13	7	3	27	40	10	17	3	3	3	
1–2	53	50	37	39	60	47	52	10	27	29	18	33
3–4	14	20	40	31	13	10	28	26	40	35	18	30
5–6	10	10	6	17		3	3	27	20	17	35	22
7–8	13		7	10			7	10	10	10	14	11
9–10		7	3					3		3	11	
11–12								7		3		4
163. Кашира												
0	7	7	7		31	42	24	7	3	4		
1–2	18	29	21	38	55	31	38	31	28	18	19	8
3–4	22	34	28	25	7	24	32	21	35	22	8	11
5–6	30	10	20	24	7	3	3	24	21	26	8	31
7–8	15	14	10	7			3	7	10	18	11	19
9–10	8		14					7	3	4	19	15
11–12		3		3				3		4	19	4
13–14		3								4	12	8
15–16				3							4	4

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

VLADIMIRSKAYA OBLAST

171. Вязники

0	7	14	14	10	41	38	21	14	7	7	7	10
1–2	42	38	35	28	45	52	48	31	48	39	17	28
3–4	31	42	38	28	14	10	24	21	31	31	24	31
5–6	10	3	10	24			7	21	7	17	31	21
7–8	10	3		10				7	7	3	21	7
9–10								6				
11–12			3							3		
13–14												3

176. Владимир

0	17	13	17	25	29	33	21	13	13	9	13	4
1–2	50	34	34	25	38	54	50	17	4	22	13	48
3–4	25	33	29	30	17	13	21	16	25	13	17	
5–6	8	8	12	4	16		4	25	29	17	31	18
7–8		8	4	12			4	25	17	30	9	9
9–10			4	4				4	8	9	4	17
11–12		4							4		9	
13–14											4	
15–16												
17–18												
19–20												4

181. Петушки

0	17		11	7	31	52	31	21	3	11		7
1–2	53	69	17	34	56	24	56	24	7	14	21	31
3–4	21	21	52	38	10	21	10	18	56	24	28	28
5–6		7	10	14	3	3		27	28	31	28	25
7–8	3		10	7			3	3	3	17	10	3
9–10	3	3						7	3		10	3
11–12	3									3	3	
13–14												3

183. Мошок

0	25	23	18	17	45	62	17	14	17	7	4	8
1–2	43	35	36	35	42	28	59	24	28	14	14	30
3–4	11	27	25	25	10	10	24	45	24	43	30	27
5–6	14	11	21	17	3			7	24	21	29	23
7–8	7	4						10	7	7	11	8
9–10				3						4	4	4
11–12				3						4	4	
13–14											4	

185. Гусь-Хрустальный

0	11	11	11	7	29	39	21	14	11	4	4	4
1–2	39	48	50	50	57	46	50	25	14	18	22	39
3–4	32	26	14	15	14	11	18	36	46	33	11	25
5–6	18	11	21	17		4	11	21	18	37	29	24
7–8			4	11				4	7	4	30	
9–10		4							4		4	8
11–12										4		

186. Муром

0	10	21	14	14	52	62	43	24	14	10	3	7
1–2	38	34	24	31	48	35	43	38	38	21	14	27
3–4	21	21	42	31		3	14	24	34	35	31	35
5–6	21	17	17	21				14	14	27	24	14
7–8	7	7									11	10
9–10			3							7	10	4
11–12	3			3							7	3

[redacted] [redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

SMOLENSKAYA OBLAST

194. Велиж

0	4	8	4	7	23	26	15	4	4	7	4	8
1–2	31	23	40	44	50	48	18	11	15	18	15	24
3–4	23	34	28	41	27	26	41	25	15	30	30	28
5–6	15	27	16	8			26	37	23	11	18	12
7–8	15	4	12					16	27	22	15	16
9–10	4							7	8	8	11	12
11–12	8	4							8	4	7	

195. Гжатск

0	8	8	4	13	33	13	12	4		16	12	8
1–2	34	34	34	42	59	50	36	16	24	8	16	28
3–4	54	50	25	29	8	33	36	32	24	20	28	28
5–6		8	25	16		4	8	32	16	32	24	20
7–8	4		4				4	16	28	12	16	8
9–10			8				4		4	8		8
11–12									4		4	
13–14												
15–16										4		

196. Вязьма

0		4	4	8	23	35	15	4		4	4	4
1–2	18	8	12	23	58	31	36	36	12	11		4
3–4	32	38	16	31	19	30	45	16	39	11	15	7
5–6	28	15	22	27		4	4	16	23	15	12	15
7–8	18	15	30	11				20	22	29	22	22
9–10	4	16	8					8		15	18	26
11–12		4	8						4	4	15	11
13–14										11	7	7
15–16											7	
17–18												
19–20												4

211. Смоленск

0					17	17	13	17				
1–2		4	9	9	44	66	22	13	4		4	
3–4	4	26	18	35	30	13	56	22	26	18		4
5–6	4	17	4	30	9	4	[illegible]	13	31	12	4	
7–8	31	26	35	17				26	22	18	22	18
9–10	30		30	5				9	13	23	13	39
11–12	9	9		4						18	35	22
13–14	9	18							4		13	4
15–16	13		4							5	5	9
17–18												4
19–20											4	
20–21												4

212. Ельня

0	8	4	4	4	23	31	4	11				
1–2		23	8	35	50	54	58	35	12	12	8	8
3–4	27	15	30	34	23	15	30	27	38	16	8	20
5–6	34	30	19	19	4		4	11	19	32	24	12
7–8	19	12	23	8			4	8	12	20	28	16
9–10	4	12	8					8	19	12	12	28
11–12	4	4	4							8	4	4
13–14	4		4								16	8
15–16												4

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
217. Рославль												
0		4		4	12	24	12	12		4	4	
1–2	8	12	12	52	48	64	48	40	36	17		
3–4	12	8	12	12	32	8	24	32	32	12	8	13
5–6	24	24	24	16	8	4	16	12	16	30	12	8
7–8	36	20	16	8				4	12	4	12	33
9–10	12	24	24	8						12	17	17
11–12	8	4	8						4	17	30	13
13–14		4	4							4	13	8
15–16												4
17–18											4	
19–20												
21–22												4

KALUZHSKAYA OBLAST

225. Калуга												
0	10	5		10	24	29	14	14		5		
1–2	29	38	28	52	62	62	52	19	24	20	25	20
3–4	28	43	47	19	14	9	24	33	29	30	30	25
5–6	28		10	5			10	29	33	10	10	20
7–8	5	14	5	5				5	14	15	5	25
9–10			5	9						15	20	
11–12											5	5
13–14			5							5	5	
15–16												5
226. Спас-Деменск												
0		4		4	26	22	22	22				
1–2	22	22	4	35	48	61	39	22	17	18	5	10
3–4	22	26	22	26	26	17	30	21	35	27	18	10
5–6	17	18	22	31			9	9	31	28	10	23
7–8	22	17	26	4				22	4	14	27	38
9–10	13	9	22					4	13	9	27	9
11–12	4		4							4	9	5
13–14		4									4	5
229. Фаянсовая и Киров												
0	13	8		20	33	32	28	8	4		4	9
1–2	22	38	8	32	54	60	48	48	24	25	8	9
3–4	26	29	42	24	13	8	16	28	36	29	8	17
5–6	31	8	21	20			8	16	20	17	13	39
7–8	4	13	21						12	13	25	9
9–10	4		4						4	8	30	9
11–12			4							4	8	4
13–14		4		4						4	4	
15–16												4
232. Жиздра												
0	12	19	4	15	34	54	38	19	4	4	4	8
1–2	38	27	4	46	58	35	31	31	21	28	16	12
3–4	19	38	58	16	8	11	23	31	46	28	16	40
5–6	27	12	15	15			8	15	17	20	20	20
7–8	4	4	11					4	8	4	16	8
9–10			4	4						8	24	8
11–12			4	4					4	8	4	
13–14												4

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

RYAZANSKAYA OBLAST

233. Тума

0	14	14	10	7	38	64	24	21	3	7		7
1–2	28	45	35	50	55	32	63	28	52	38	31	25
3–4	35	35	31	29	7	4	10	31	28	35	21	36
5–6	17	3	14	7			3	20	17	14	21	18
7–8	3	3	7	7						3	17	14
9–10			3								10	
11–12	3											
13–14										3		

234. Елатьма

0	7	24	7	7	57	53	36	7	4	4		4
1–2	32	36	18	25	39	36	42	49	49	21	25	28
3–4	36	21	39	46	4	7	18	37	43	32	10	35
5–6	11	11	21	4		4	4	7	4	29	35	21
7–8	7	4	7	14						7	11	4
9–10	7	4	4	4						7	11	4
11–12			4								4	
13–14											4	
15–16												
17–18												4

237. Рязань

0	3	7	7	14	52	55	45	21	14	7	3	
1–2	7	32	17	28	45	42	45	48	59	35	7	7
3–4	35	17	32	21	3	3	7	14	27	34	24	17
5–6	35	31	21	20			3	17		17	45	35
7–8	3	7	7	14						7	7	21
9–10	17	3	3	3							14	14
11–12		3	10									3
13–14			3									3

239. Сасово

0	4		7	7	46	54	43	19	15	4		
1–2	18	36	14	46	50	39	36	33	56	19	23	15
3–4	32	42	43	25	4	7	14	41	22	38	31	46
5–6	32	14	14	14			7	7	7	35	27	16
7–8	14	4	11	4						4	11	23
9–10		4	7	4							8	
11–12												
13–14			4									

240. Шилово

0	7	21	10	21	59	59	42	14	17	7	7	10
1–2	62	56	38	42	38	35	41	48	32	31	31	24
3–4	21	17	18	27	3	3	14	24	28	38	45	49
5–6	7	3	24	7		3	3	14	3	21	10	14
7–8		3	7	3						3	7	
9–10	3		3									3

241. Старожилово

0	22		4	15	67	70	55	32	33	11	4	4
1–2	37	56	22	30	26	30	41	48	56	23	26	22
3–4	15	26	33	26	7		4	16	11	27	29	40
5–6	15	7	22	11				4		27	26	18
7–8	4	7	15	11						8	7	
9–10	7	4		7						4	4	4
11–12			4								4	4
13–14												4
15–16												

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
					242. Михайлов							
0	3			10	47	63	60	30	20	10	7	4
1–2	24	31	13	40	53	30	30	40	43	21	10	14
3–4	33	23	37	20		7	10	20	37	41	36	18
5–6	13	33	30	20				10		11	10	35
7–8	13	13	10							17	18	7
9–10	7		7	10							11	10
11–12	7		3								4	4
13–14											4	4
15–16												
17–18												4
					243. Шацк							
0	16	12	12	20	42	42	38	27	4	12	4	4
1–2	36	64	44	38	46	46	35	38	69	32	36	36
3–4	32	12	28	19	12	12	15	23	23	28	20	36
5–6	12	8	4	23			8	8		20	24	16
7–8	4	4	8				4	4	4		12	
9–10										8	4	4
11–12												
13–14			4									4
					246. Павелец							
0		3		7	28	48	42	10	14	7		
1–2	10	14	11	21	66	45	45	52	55	18	4	
3–4	7	18	17	17	3	7	10	21	21	14	10	4
5–6	36	28	28	31	3			17	10	25	14	21
7–8	11	17	21	10			3			21	18	7
9–10	25	17	10	7						11	18	24
11–12	7		10								25	25
13–14	4		3	7						4	7	11
15–16		3									4	4
17–18												
19–20												
21–22												
23–24												4

TUL'SKAYA OBLAST

					256. Узловая							
0				4	37	48	19	15	15	4		
1–2	11	22	11	26	41	45	59	33	29	11	4	
3–4	23	30	22	19	22	7	15	33	41	15	4	11
5–6	19	11	15	26			7	15	11	29	19	30
7–8	22	18	19	7				4	4	26	22	22
9–10	18	11	18	11						4	26	11
11–12	7	4	7	7						7	18	15
13–14			4								7	
15–16		4								4		7
17–18			4									
19–20												
21–22												4
					259. Белев							
0	7	7		14	57	50	68	32	14	11	7	4
1–2	36	32	29	32	39	50	28	36	64	41	19	7
3–4	21	36	28	38	4		4	21	18	18	19	33
5–6	14	18	25					11	4	15	15	30
7–8	14	7	14	4						11	18	11
9–10	4		4	4						4	11	7
11–12	4			4							11	4
13–14												
15–16				4								
17–18												4

[redacted]

Number Days	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
262. Волово												
0		3			14	52	24	14	3			
1–2		7		17	72	38	52	21	39	7		
3–4	4	14	14	21	11	10	18	34	34	14	11	
5–6	4	14	17	21			3	28	14	25	4	4
7–8	43	24	14	14			3	3	7	18		14
9–10	11	10	24	13	3				3	21	14	7
11–12	18	18	22	7						4	18	21
13–14	10	7	3							7	14	18
15–16	10	3	3	7						4	32	14
17–18											7	14
19–20			3									4
21–22												
23–24												
25–26												4

Table 2a. Recurrence of various number of days with fog (%).

Number of days	Recurrence
YAROSLAVSKAYA OBLAST	
2. Владычное	
26–30	15
31–35	35
36–40	15
41–45	10
46–50	5
51–55	15
56–60	5
6. Пошехонье-Володарск	
11–15	4
16–20	4
21–25	13
26–30	17
31–35	24
36–40	24
41–45	14
13. Данилов	
16–20	7
21–25	10
26–30	35
31–35	28
36–40	14
41–45	3
46–50	
51–55	3
15. Рыбинск, ГМО	
11–15	11
16–20	11
21–25	22
26–30	34
31–35	22

Number of days	Recurrence
21. Тутаев	
16–20	7
21–25	15
26–30	15
31–35	30
36–40	19
41–45	7
46–50	7
25. Ярославль	
21–25	12
26–30	4
31–35	15
36–40	19
41–45	27
46–50	19
51–55	4
26. Углич	
11–15	7
16–20	21
21–25	38
26–30	21
31–35	3
36–40	10
33. Переславль-Залесский	
6–10	4
11–15	15
16–20	30
21–25	15
26–30	18
31–35	7
36–40	7
41–45	4

Number of days	Recurrence
KALININSKAYA OBLAST	
42. Бологое	
26–30	15
31–35	15
36–40	26
41–45	18
46–50	7
51–55	4
56–60	7
61–65	4
66–70	
71–75	4
46. Бежецк	
21–25	4
26–30	19
31–35	19
36–40	16
41–45	15
46–50	23
51–55	
56–60	4
51. Вышний Волочек	
16–20	7
21–25	11
26–30	14
31–35	25
36–40	18
41–45	21
46–50	
51–55	
56–60	
61–65	4

[redacted]

Number of days	Recurrence
53. Толмачи	
21–25	8
26–30	8
31–35	15
36–40	19
41–45	23
46–50	15
51–55	8
56–60	4
55. Кашин	
21–25	4
26–30	7
31–35	18
36–40	14
41–45	21
46–50	28
51–55	4
56–60	4
59. Осташков	
11–15	4
16–20	4
21–25	14
26–30	4
31–35	18
36–40	18
41–45	15
46–50	15
51–55	4
56–60	
61–65	4
64. Кувшиново	
21–25	8
26–30	12
31–35	24
36–40	12
41–45	8
46–50	12
51–55	16
56–60	
61–65	8
65. Торжок	
16–20	4
21–25	4
26–30	15
31–35	26
36–40	19
41–45	4
46–50	8
51–55	8
56–60	8
61–65	4
73. Калинин	
26–30	11
31–35	22
36–40	11
41–45	15
46–50	15
51–55	15
56–60	11
83. Тургиново	
16–20	15
21–25	27
26–30	19
31–35	23
36–40	4
41–45	8
46–50	
51–55	4
84. Торопец	
31–35	4
36–40	21
41–45	17
46–50	17
51–55	21
56–60	12
61–65	4
66–70	
71–75	4
88. Западная Двина	
16–20	8
21–25	21
26–30	12
31–35	17
36–40	13
41–45	8
46–50	13
51–55	4
56–60	4
MOSKOVSKAYA OBLAST	
102. Клин	
11–15	4
16–20	4
21–25	7
26–30	33
31–35	7
36–40	19
41–45	11
46–50	11
51–55	4
103. Дмитров	
21–25	9
26–30	17
31–35	17
36–40	22
41–45	22
46–50	
51–55	5
56–60	
61–65	4
66–70	4
110. Волоколамск	
16–20	4
21–25	
26–30	31
31–35	19
36–40	15
41–45	12
46–50	8
51–55	11
117. Починки	
11–15	14
16–20	18
21–25	50
26–30	9
31–35	5
36–40	4
118. Ново-Иерусалим	
16–20	4
21–25	11
26–30	18
31–35	18
36–40	22
41–45	4
46–50	8
51–55	15
121. Москва, с.-х. академия	
16–20	8
21–25	25
26–30	21
31–35	13
36–40	8
41–45	4
46–50	21
130. Москва, ГМО	
6–10	22
11–15	11
16–20	6
21–25	28
26–30	22
31–35	6
36–40	5
146. Можайск	
26–30	18
31–35	18
36–40	27
41–45	14
46–50	14
51–55	9
157. Михнево	
21–25	8
26–30	16
31–35	12
36–40	24
41–45	12
46–50	20
51–55	8

Number of days	Recurrence
163. Кашира	
21–25	4
26–30	4
31–35	12
36–40	
41–45	16
46–50	28
51–55	4
56–60	8
61–65	8
66–70	8
71–75	8
VLADIMIRSKAYA OBLAST	
171. Вязники	
11–15	3
16–20	
21–25	14
26–30	14
31–35	41
36–40	7
41–45	14
46–50	7
176. Владимир	
11–15	4
16–20	
21–25	4
26–30	9
31–35	13
36–40	22
41–45	4
46–50	18
51–55	22
56–60	
61–65	4
181. Петушки	
16–20	4
21–25	10
26–30	14
31–35	17
36–40	35
41–45	10
46–50	7
51–55	3
183. Мошок	
16–20	4
21–25	18
26–30	26
31–35	4
36–40	31
41–45	9
46–50	4
51–55	4
185. Гусь-Хрустальный	
16–20	4
21–25	9
26–30	23
31–35	46
36–40	4
41–45	14
186. Муром	
16–20	4
21–25	17
26–30	35
31–35	21
36–40	10
41–45	10
46–50	
51–55	3
SMOLENSKAYA OBLAST	
194. Велиж	
26–30	8
31–35	4
36–40	21
41–45	25
46–50	13
51–55	12
56–60	17
195. Гжатск	
26–30	17
31–35	25
36–40	17
41–45	8
46–50	21
51–55	8
56–60	
61–65	4
199. Вязьма	
31–35	5
36–40	5
41–45	5
46–50	5
51–55	26
56–60	22
61–65	9
66–70	8
71–75	5
76–80	5
81–85	
86–90	5
211. Смоленск	
56–60	6
61–65	9
66–70	13
71–75	18
76–80	27
81–85	18
86–90	5
91–95	5
212. Ельня	
36–40	12
41–45	4
46–50	20
51–55	16
56–60	24
61–65	16
66–70	4
71–75	
76–80	4
217. Рославль	
36–40	4
41–45	4
46–50	13
51–55	13
56–60	17
61–65	12
66–70	25
71–75	8
76–80	4
KALUZHSKAYA OBLAST	
225. Калуга	
21–25	5
26–30	5
31–35	25
36–40	20
41–45	10
46–50	15
51–55	5
55–60	10
61–65	5
226. Спас-Деменск	
36–40	10
41–45	
46–50	24
51–55	33
56–60	14
61–65	10
66–70	9
229. Фаянсовая и Киров	
26–30	14
31–35	10
36–40	14
41–45	28
46–50	5
51–55	10
56–60	9
61–65	5
66–70	5

Number of days	Recurrence
232. Жиздра	
21–25	4
26–30	17
31–35	17
36–40	29
41–45	8
46–50	17
51–55	4
56–60	
61–65	4

RYAZANSKAYA OBLAST

Number of days	Recurrence
233. Тума	
16–20	4
21–25	18
26–30	22
31–35	26
36–40	26
41–45	4
234. Елатьма	
16–20	4
21–25	7
26–30	7
31–35	42
36–40	14
41–45	18
46–50	4
51–55	4
237. Рязань	
21–25	3
26–30	7
31–35	28
36–40	21
41–45	21
46–50	14
51–55	3
56–60	3
239. Сасово	
21–25	9
26–30	30
31–35	22
36–40	4
41–45	22
46–50	13
240. Шилово	
11–15	4
16–20	17
21–25	27
26–30	31
31–35	17
36–40	
41–45	4
241. Старожилово	
16–20	8
21–25	20
26–30	44
31–35	16
36–40	
41–45	8
46–50	4
242. Михайлов	
16–20	4
21–25	4
26–30	32
31–35	21
36–40	7
41–45	10
46–50	4
51–55	7
56–60	7
61–65	4
243. Шацк	
16–20	8
21–25	29
26–30	33
31–35	13
36–40	9
41–45	8
246. Павелец	
36–40	4
41–45	7
46–50	15
51–55	26
56–60	22
61–65	18
66–70	
71–75	4
76–80	4

TUL'SKAYA OBLAST

Number of days	Recurrence
256. Узловая	
31–35	4
36–40	8
41–45	4
46–50	19
51–55	19
56–60	15
61–65	19
66–70	
71–75	4
76–80	8
259. Белев	
21–25	33
26–30	19
31–35	19
36–40	7
41–45	4
46–50	4
51–55	7
56–60	
61–65	7
262. Волово	
46–50	4
51–55	
56–60	8
61–65	11
66–70	8
71–75	15
76–80	22
81–85	18
86–90	7
91–95	7

Table 3. Mean duration of fogs (hours).

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X—III	IV—IX	Год	Duration of fog on day with fog IX—III	IV—IX	Year
	YAROSLAVSKAYA OBLAST																		
6	Пошехонье-Володарск	11	11	14	10	5	2	6	9	10	12	14	14	76	42	118	3.7	2.8	3.3
13	Данилов	10	11	10	14	4	3	7	11	15	23	33	23	110	54	164	5.5	4.0	4.9
25	Ярославль	21	22	15	10	4	3	6	13	17	17	26	23	124	53	177	5.3	3.5	4.6
26	Углич	7	6	10	6	2	2	3	8	10	9	15	10	57	31	88	4.5	3.1	3.9
	KALININSKAYA OBLAST																		
51	Вышний Волочек	14	11	12	8	3	2	6	12	16	20	23	17	97	47	144	4.6	3.3	4.0
72	Савелово	8	10	11	6	4	3	6	13	20	16	23	15	83	52	135	4.6	3.4	4.0
84	Торопец	18	16	22	12	6	4	5	13	24	20	38	31	145	64	209	5.0	3.2	4.3
89	Ржев	12	18	21	13	4	3	3	10	15	16	33	28	128	48	176	5.2	3.4	4.5
	MOSKOVSKAYA OBLAST																		
110	Волоколамск	11	9	16	12	5	4	7	19	16	17	27	20	100	63	163	5.0	3.7	4.4
124	Москва, ВДНХ	11	16	15	10	2	1	3	8	8	15	21	17	95	32	127	6.2	4.4	5.6
129	Павловский Посад	15	10	12	11	3	3	3	10	10	22	25	22	106	40	146	5.3	3.7	4.8
157	Михнево	16	21	17	18	5	3	11	18	15	25	34	24	137	70	207	5.9	3.8	4.9
	VLADIMIRSKAYA OBLAST																		
168	Александров	16	14	21	17	6	4	5	15	19	30	46	48	175	66	241	5.9	3.8	5.2
176	Владимир	12	14	15	16	5	4	5	18	26	23	29	33	126	74	200	4.3	3.7	4.1
185	Гусь-Хрустальный	12	9	10	12	4	3	4	11	14	18	24	15	88	48	136	4.4	3.5	4.0
186	Муром	13	11	15	13	1	1	2	6	8	18	24	21	102	31	133	5.0	3.2	4.3
	SMOLENSKAYA OBLAST																		
199	Вязьма	24	29	26	19	5	4	6	16	20	27	60	61	227	70	297	5.7	3.5	5.0
211	Смоленск	53	44	57	22	5	5	6	15	24	35	81	95	365	77	442	5.1	3.7	4.7
217	Рославль	40	41	48	16	7	5	6	10	16	29	68	71	297	60	357	6.7	5.8	5.9

	KALUZHSKAYA OBLAST																		
219	Малоярославец . .	13	9	13	10	6	3	4	12	12	21	32	25	113	47	160	4.3	3.4	4.0
225	Калуга	13	15	15	13	3	4	7	12	16	20	22	38	123	55	178	5.3	3.7	4.7
228	Сухиничи	18	17	30	14	2	3	5	7	11	26	45	37	173	42	215	6.0	3.3	5.4
	RYAZANSKAYA OBLAST																		
234	Елатьма	16	11	16	17	2	2	4	8	9	23	30	25	121	42	163	5.1	3.7	4.7
237	Рязань	33	[illegible]	28	15	2	1	4	7	7	20	31	39	173	36	209	5.1	3.3	4.7
239	Сасово	22	15	24	15	2	2	3	8	8	19	30	26	136	38	174	5.2	3.6	4.8
247	Ряжск	14	11	24	15	2	2	1	6	5	14	18	27	108	31	139	5.1	3.6	4.6
	TUL'SKAYA OBLAST																		
255	Тула	29	27	35	22	6	6	6	17	16	28	23	38	180	73	253	5.8	3.5	4.9
262	Волово	61	44	67	41	5	2	5	11	11	47	98	121	438	75	513	7.7	4.5	7.0
263	Чернь и Скуратово	53	41	55	28	2	1	3	7	9	36	76	79	340	50	390	6.7	4.4	6.3

Table 3a. Maximum duration of fogs (hours).

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X—III	IV—IX	Year
	YAROSLAVSKAYA OBLAST															
6	Пошехонье-Володарск . . .	34	38	57	38	26	8	25	22	31	59	57	36	134	75	184
13	Данилов	41	57	34	44	18	19	34	50	38	76	107	57	204	134	315
25	Ярославль . . .	75	118	40	26	15	12	33	27	59	64	75	80	300	108	312
26	Углич	36	26	35	25	11	13	13	28	26	58	56	58	106	48	147
	KALININSKAYA OBLAST															
51	Вышний Волочек	35	36	35	34	11	10	22	46	61	60	70	69	204	96	240
72	Савелово	45	31	33	38	17	16	28	39	91	68	99	39	219	115	238
84	Торопец	62	46	64	39	26	18	14	29	82	58	144	82	314	120	448
89	Ржев	35	67	54	42	16	10	10	29	42	59	132	111	180	80	444
	MOSKOVSKAYA OBLAST															
110	Волоколамск . .	32	40	83	50	18	17	26	41	56	53	77	66	179	124	332
124	Москва, ВДНХ . .	43	96	54	36	15	10	15	36	28	43	68	72	254	77	263
129	Павловский Посад	81	45	52	40	27	12	8	33	46	74	63	71	228	82	266
157	Михнево	52	119	66	73	23	16	36	46	40	77	94	60	203	116	356

Station No.	Station	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	X—III	IV—IX	Year
	VLADIMIRSKAYA OBLAST															
168	Александров . .	59	88	64	61	16	15	16	47	52	95	136	206	268	125	499
176	Владимир	56	71	45	43	20	12	20	40	54	64	92	180	234	121	416
185	Гусь-Хрустальный	30	33	26	40	14	18	12	35	47	75	69	35	169	95	254
186	Муром	42	38	61	32	7	4	9	20	26	71	63	124	218	56	250
	SMOLENSKAYA OBLAST															
199	Вязьма	98	133	77	46	18	21	15	42	38	81	191	163	349	122	612
211	Смоленск	126	119	112	78	16	16	24	34	54	102	263	200	554	130	662
217	Рославль	105	146	152	68	19	18	108	31	59	88	179	200	454	158	554
	KALUZHSKAYA OBLAST															
219	Малоярославец . .	39	46	48	42	20	18	22	38	40	80	108	111	216	100	321
225	Калуга	36	53	63	63	12	10	28	31	27	63	61	143	187	77	375
228	Сухиничи	47	34	74	88	9	13	25	19	24	108	113	125	302	140	430
	RYAZANSKAYA OBLAST															
234	Елатьма	45	66	55	50	12	19	16	24	35	59	72	132	200	81	340
237	Рязань	72	77	90	56	9	6	26	31	31	68	76	106	264	75	368
239	Сасово	78	53	76	48	10	10	22	35	32	60	95	104	225	84	392
247	Ряжск	56	30	62	33	11	11	5	37	13	31	48	110	231	62	309
	TUL'SKAYA OBLAST															
255	Тула	84	69	59	43	16	36	16	41	32	54	84	104	264	114	376
262	Волово	156	130	166	110	16	12	31	32	35	194	187	422	642	156	928
263	Чернь и Скуратово	108	106	116	91	15	9	16	31	19	94	150	277	668	109	581

Table 3b. Duration of fogs at various times the day (hours).

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
YaROSLAVSKAYa OBLAST												
6. Пошехонье-Володарск												
18–24	1	2	1	1	1	0.2	0.4	0.3	1	1	2	2
24–6	2	1	5	3	3	2	5	7	5	4	3	2
6–12	6	7	8	5	1	0.1	0.2	2	4	6	5	6
12–18	2	1	0.5	1				0.1		1	4	4
13. Данилов												
18–24	1	1	2	2	1	0.3	1		1	2	6	2
24–6	1	2	3	5	2	2	5	7	5	6	9	4
6–12	5	6	4	6	1	1	1	4	9	10	12	9
12–18	3	2	1	1			0.2		0.3	5	6	8
26. Ярославль												
18–24	5	4	1	2	0.5		0.2	1	2	3	5	[illegible]
24–6	2	6	3	3	2	3	4	7	8	4	7	[illegible]
6–12	9	10	9	4	1	0.3	2	4	7	8	10	7
12–18	5	2	2	1				1	0.2	2	4	7
26. Углич												
18–24	0.5	0.4	1	1					0.2	2	2	1
24–6	1	0.2	3	1	1	1	2	5	5	3	5	2
6–12	4	4	6	3	1	1	1	3	5	4	5	4
12–18	2	1		1					0.1	0.3	3	3
KALININSKAYa OBLAST												
51. Вышний Волочек												
18–24	4	3	2	1			0.1	1	1	3	6	3
24–6	2	1	2	3	2	2	4	5	7	5	4	3
6–12	5	5	7	4	1	0.5	2	6	8	10	8	7
12–18	3	2	1	0.2					0.3	2	5	4
72. Савелово												
18–24	1	0.5	1	1	1		0.2		2	1	6	3
24–6	2	3	3	2	2	3	5	9	9	5	5	4
6–12	4	6	6	2	1	0.5	1	4	9	9	7	5
12–18	1	1	1	1					0.4	1	5	3
84. Торопец												
18–24	4	3	5	3	0.1		0.1	0.4	2	3	8	7
24–6	6	5	4	4	5	3	4	9	12	7	9	7
6–12	5	7	9	5	1	1	1	4	10	9	13	9
12–18	3	1	4	0.5						1	8	8
89. Ржев												
18–24	2	3	4	3	0.3				1	2	6	6
24–6	2	4	6	4	2	2	2	6	6	6	8	6
6–12	5	8	9	5	2	1	1	4	8	7	12	9
12–18	3	3	2	1						1	6	7

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
MOSKOVSKAYa OBLAST												
110. Волоколамск												
18–24	2	1	2	3	0.5		0.2	2	1	2	6	6
24–6	1	3	4	3	3	3	5	10	7	5	5	3
6–12	6	4	9	4	2	1	2	7	8	9	10	6
12–18	2	1	1	2				0.2	0.4	1	6	5
124. Москва, ВДНХ												
18–24	4	4	2	1	0.5	0.1	0.3	0.4	1	2	5	4
24–6	3	6	6	5	1	1	2	4	3	4	6	3
6–12	2	4	6	4	0.3	0.3	1	4	4	7	6	5
12–18	2	2	1	0.2				0.1	0.1	2	4	5
129. Павловский Посад												
18–24	3	2	2	1	0.2	0.2	0	0.4	2	4	5	5
24–6	3	2	4	4	1	2	2	5	3	7	7	6
6–12	5	4	5	6	2	0.5	1	5	4	9	9	7
12–18	4	2	1	0.5					1	2	4	4
157. Михнево												
18–24	3	2	3	3	0.1	0.2	1	1	3	4	7	4
24–6	3	5	3	7	3	2	8	12	7	8	8	5
6–12	6	10	8	6	2	0.4	2	5	5	10	12	9
12–18	4	4	3	2	0.1	0	0.1	0.2	0.1	3	7	6
BLADIMIRSKAY OBLAST												
168. Александров												
18–24	4	2	3	2	1	1		0.3	2	4	9	13
24–6	3	3	5	7	3	2	3	8	7	11	15	13
6–12	5	6	10	7	2	1	2	6	9	12	15	13
12–18	4	3	3	1	0.1		0.2	1	1	3	7	9
176. Владимир												
18–24	3	4	3	3	0.1		0.2	0.2	2	3	6	8
24–6	3	2	4	6	5	4	4	11	14	9	6	8
6–12	4	7	7	6	0.4	0.4	1	7	9	10	11	11
12–18	2	1	1	1					1	1	6	6
185. Гусь-Хрустальный												
18–24	3	1	0.5	2	0.1	0.1		0.5	1	2	5	2
24–6	3	2	2	4	2	3	3	6	6	6	7	3
6–12	4	5	7	6	2	0.1	1	4	7	8	8	7
12–18	2	1	0.1	0.5					0.3	2	4	3
186. Муром												
18–24	2	1	2	2	0.3	0.02			0.4	2	4	4
24–6	2	3	5	4	1	1	1	3	3	6	6	5
6–12	6	6	7	6	0.1		1	3	4	8	11	9
12–18	3	1	1	1				0.2	1	2	3	3
SMOLENSKAYa OBLAST												
199. Вязьма												
18–24	5	2	5	2				0.3	1	4	14	13
24–6	4	7	7	6	2	3	4	9	9	9	16	16
6–12	9	17	12	9	3	1	2	7	9	11	19	17
12–18	6	3	2	2				0.2	1	3	11	15

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
211. Смоленск												
18–24	11	3	12	2		0.5		0.3	2	5	17	24
24–6	12	9	14	10	4	4	5	10	13	14	19	14
6–12	20	23	18	7	1	1	1	5	8	15	28	29
12–18	10	9	13	3					1	1	17	28
217. Рославль												
18–24	9	8	9	3	0.4				1	3	13	18
24–6	8	11	11	4	4	4	4	4	5	6	14	17
6–12	13	15	20	7	3	1	2	6	8	16	27	19
12–18	10	7	8	2					2	4	14	17
KALUZhSKAYa OBLAST												
219. Малоярославец												
18–24	2	1	2	2	0.4	0.2	0.2	0.5	0.5	3	8	4
24–6	3	3	3	4	4	2	3	7	5	7	9	7
6–12	6	4	7	4	2	1	1	5	6	9	10	9
12–18	2	1	1	0.2					0.4	2	5	5
225. Калуга												
18–24	2	3	4	1					1	1	8	7
24–6	5	6	2	6	2	3	5	7	8	6	5	9
6–12	5	4	9	6	1	1	2	5	7	11	5	13
12–18	1	2	0.4							2	4	9
228. Сухиничи												
18–24	4	3	6	3					0.1	2	11	9
24–6	5	6	9	7	2	2	5	4	3	7	9	7
6–12	6	6	14	4	0.2	1		3	7	17	18	11
12–18	3	2	1						1	0.5	7	10
RYaZANSKAYa OBLAST												
234. Елатьма												
18–24	3	2	2	3	0.3				1	3	5	5
24–6	2	3	5	4	1	1	3	4	3	6	5	4
6–12	7	5	8	8	0.3	0.5	1	4	5	11	14	8
12–18	4	1	1	2	0.2	0.2				3	6	8
237. Рязань												
18–24	8	5	4	3						4	6	9
24–6	6	4	7	4	1	1	2	3	3	5	5	7
6–12	11	9	12	7	1	0.4	2	4	4	9	12	13
12–18	8	4	5	1			0.2	0.2	0.4	2	8	10
239. Сасово												
18–24	6	2	6	4				0.2	0	3	6	6
24–6	3	3	6	6	1	1	2	4	4	4	7	5
6–12	8	8	10	4	1	1	1	4	4	10	12	10
12–18	5	2	2	1						2	5	5
247. Ряжск												
18–24	2	2	3	2	0.2				0.1	1	4	6
24–6	2	2	6	4	1	2	1	3	1	4	5	5
6–12	5	5	11	7	0.3	0.5	0.3	3	4	7	8	8
12–18	5	2	4	2	0.2			0.1	0.3	2	1	8

Hours	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
TUL'SKAYa OBLAST												
255. Тула												
18–24	4	4	4	3				1	0	3	6	5
24–6	3	4	9	7	3	4	3	5	6	7	4	5
6–12	14	14	18	10	3	2	3	11	10	16	7	16
12–18	8	5	4	2						2	6	12
262. Волово												
18–21	12	8	15	10	0 2			0.3	0.2	8	22	27
21–6	14	9	16	12	2	1	3	6	4	14	24	28
6–12	21	15	24	12	3	1	2	5	7	20	29	36
12–18	11	12	12	7					0 3	5	23	30
263. Чернь и Скуратово												
18–21	13	7	8	6					0 2	5	17	17
24–6	11	11	15	11	1	0 2	2	4	3	10	24	20
6–12	15	15	23	8	1	1	1	3	6	16	21	25
12–18	11	8	9	3	0	0 2				5	14	17

Table 4. Recurrence of various duration of fogs by months (%).

Duration (hours)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
YaROSLAVSKAYa OBLAST												
6. Пошехонье-Володарск												
<3	20	25	15	35	55	65	38	24	9	28	19	14
3–6	20	5	20	5	10	20	24	14	24	5	19	10
6–12	15	20	30	25	25	15	28	33	33	14	14	24
12–18	25	30	10	15	5		5	10	24	43	29	19
18–24	10	15	5	10				19	5	5	5	14
24–48	10	5	15	10	5		5		5		9	19
>48			5							5	5	
25. Ярославль												
<3	12	20	12	32	48	64	40	4	8	16	4	20
3–6	8	8	8	8	28	20	24	20	21	24	8	4
6–12	12	20	24	24	16	12	24	20	17	12	12	8
12–18	24	8	24	16	8	40	8	32	17	16	12	16
18–24	8	16	12	16				16	8	8	8	8
24–48	28	16	20	4			4	8	25	12	48	36
>48	8	12							4	12	8	8
KALININSKAYa OBLAST												
51. Вышний Волочек												
<3	16	24	20	44	58	79	36	19	8	12	20	32
3–6	20	20	12	20	17	8	28	16	11	8	4	8
6–12	24	28	24	12	25	13	16	23	27	19	24	20
12–18	12	4	20	4			16	15	19	15	12	8
18–24	8	12	4	4			4	19	23	23	4	8
24–48	12	12	20	16				8	4	15	16	8
>48	8								8	8	20	16

Duration (hours)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
89. Ржев												
<3	17	13	14	21	62	65	57	25	4	31	4	4
3–6	18	4	4	12	17	18	17	17		4	8	4
6–12	22	13	5	21	13	17	26	21	44	4	17	17
12–18	17	30	23	4	8			17	26	31	17	31
18–24	9	13	9	21				12	9	13		9
24–48	17	22	41	21				8	17	4	33	9
>48		4	4							13	21	26
MOSKOVSKAYa OBLAST												
124. Москва, ВДНХ												
<3	41	41	29	29	70	82	70	47	35	24	24	35
3–6	12	18	12	18	18	12	6		23		12	6
6–12	6		23	23	6	6	12	29	12	23	18	12
12–18	18	17	6		6		12	18	18	12	6	
18–24	12			12						23	6	23
24–48	12	18	24	18				6	12	18	17	18
>48		6	6								17	6
157. Михнево												
<3	26	29	12	13	52	58	35	18	9	9	9	8
3–6	9	13	17	9	24	25	9	5	22	17	4	13
6–12	22	13	21	22	16	13	22	9	22	9	4	13
12–18	4	21	21	26	4	4	17	36	17	9	5	9
18–24	17	8			4				13	17	14	9
24–48	13	8	25	26			17	32	17	22	55	39
>48	9	8	4	4						17	9	9
VLADIMIRSKAYa OBLAST												
176. Владимир												
<3	21	20	24	27	56	54	38	11	12	19	11	11
3–6	8	8	8	4	20	15	23	15		4	8	12
6–12	21	28	20	15	8	27	27	8	11	19	11	8
12–18	17	16	4	15	8	4	8	23	11	8		19
18–24	4	8	16	12	8		4	12	23	4	12	8
24–48	25	12	28	27				31	31	35	27	19
>48	4	8							12	11	31	23
186. Муром												
<3	27	32	29	17	88	92	77	40	28	11	8	8
3–6	12	4	8	25	8	8	12	12	12	11	12	19
6–12	23	28	25	12	4		11	40	32	35	15	27
12–18	11	16	13	17				4	20	4	23	15
18–24		12		12				4	4	12		4
24–48	27	8	21	17					4	19	23	15
>48			4							8	19	12
SMOLENSKAYa OBLAST												
211. Смоленск												
<3		6		12	41	38	31	22				
3–6				6	18	31	13		11			
6–12	6		12	6	29	19	44	22	17	12	6	
12–18		18		29	12	12	6	17	6	12	11	
18–24	6	6	6	12			6	22	22	6		
24–48	35	29	17	23				17	39	53	11	6
>48	53	41	65	12					5	17	72	94

Duration (Hours)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
217. Рославль												
<3	4	4		9	36	52	50	9	4	4	4	
3–6	4	5		18	27	19	5	27	9	9		
6–12	5	9	9	32	18	19	41	36	31	5	4	
12–18	14	9		9	14	10	4	5	35	23	4	9
18–24	5	14	13	14	5			18	4	5	9	4
24–48	32	27	35	14				4	13	36	9	22
>48	36	32	43	4					4	18	70	65
KALUZhSKAYa OBLAST												
225. Калуга												
<3	30	29	20	16	66	64	54	16	12	21	12	16
3–6		17	24	28	19	16	13	24	4	8	8	8
6–12	26	25	16	32	15	20	21	12	28	17	20	24
12–18	18	4	20	8			4	32	16	17	8	4
18–24	13	4	12	4			4	8	24	8	16	4
24–48	13	13	4	8			4	8	16	25	32	16
>48		8	4	4						4	4	28
RYaZANSKAYa OBLAST												
234. Елатьма												
<3	20	36	12	16	77	77	58	31	23	8	8	8
3–6	4	16	16	8	8	15	19	19	19	8	8	11
6–12	28	16	24	20	11	4	15	35	27	15	4	12
12–18	12	8	20	12	4		8		15	23	23	19
18–24	16	16	4	16		4		15	8	4	11	23
24–48	20	4	16	24					8	34	19	15
>48		4	8	4						8	27	12
237. Рязань												
<3		15	10	25	62	81	61	48	43	14	9	
3–6	11	10	10	10	4	14	22	13	19	9	4	
6–12	11	20	15	15	14	5	9	9	24	9	14	18
12–18	5	10	10	10			4	22	9	18	5	4
18–24	10		10	25				4		18	18	5
24–48	37	35	30	5			4	4	5	23	32	46
>48	26	10	15	10						9	18	27
TUL'SKAYa OBLAST												
255. Тула												
<3				6	33	53	27	13		6		
3–6		7	7		20	7	40	13			27	7
6–12	20	13	20	27	33	20	20	7	47	13	20	13
12–18	20	33	6	13	14	13	13	14	20	7		7
18–24	13	7	7	7				33	6	7	20	7
24–48	20	20	33	47		7		20	27	60	20	40
>48	27	20	27							7	13	26
262. Волово												
<3		14		9	39	75	58	17	12			
3–6					22	17	13	17	13	4		
6–12	5	14	4	14	35	8	17	38	46	18		
12–18			5	9	4		8	4	17	4		4
18–24		5		18				12	8	4	4	
24–48	28	24	27	14			4	12	4	26	14	5
>48	67	43	64	36						44	82	91

SECTION 3

SNOWSTORMS

Table 1. Mean number of days with snowstorms.

Station No.	Station	X	XI	XII	I	II	III	IV	V	Year
	YaROSLAVSKAYa OBLAST									
1	Мякса	0.1	3	6	8	6	6	2		31
2	Владычное	0.3	3	6	8	8	7	1		33
3	Гаютино	0.2	4	7	10	9	8	2		40
5	Семеновское	0.6	3	6	8	8	8	1	0.2	35
6	Пошехонье-Володарск	0.2	3	6	8	7	7	2		33
8	Федино	0.6	4	5	7	8	7	1		33
9	Шарна	0.6	4	5	8	8	8	1		35
10	Брейтово	0.5	5	7	10	9	8	1	0.1	41
12	Мыс Рожновский	0.3	5	11	14	12	12	3		57
13	Данилов	0.5	3	6	7	8	7	2	0.03	34
15	Рыбинск, ГМО	1	5	8	11	11	9	1		46
16	Коприно	0.6	5	8	12	11	10	2		49
17	Исады	0.4	3	5	7	6	6	0.9		28
18	Рыбинск, город	0.4	2	5	8	9	8	1		33
20	Обухово	0.5	2	5	7	7	6	1		28
21	Тутаев	0.5	4	8	10	10	8	2		42
22	Мышкино	0.4	2	5	7	8	7	1		30
23	Новое Село	0.6	2	4	7	6	6	1		27
24	Некрасовское	0.3	3	5	7	7	5	1		28
25	Ярославль	0.7	4	8	10	10	8	1		42
26	Углич	0.1	3	5	7	7	6	0.9		29
28	Симанцы	0.1	3	5	8	8	6	1		31
29	Вёска	0.4	2	4	8	8	7	1		30
30	Высоково	0.3	2	4	6	6	5	0.8		24
31	Ростов	0.3	2	5	6	6	6	1		26
33	Переславль-Залесский	0.5	2	5	8	7	6	1		30
34	Успенский с.-х. техникум	0.5	3	6	9	8	8	0.8		35
	KALININSKAYa OBLAST									
35	Весьегонск	0.6	4	6	8	7	8	0.9		34
36	Кесьма	0.6	5	7	10	9	9	2	0.1	43
37	Березовский Рядок	0.4	3	4	8	7	6	0.9		29
38	Стяжки	0.5	4	6	8	8	8	1	0.1	36
40	Красный Холм	0.4	4	6	10	9	7	2		38
41	Спас-Забережье	0.1	1	3	4	5	5	0.6		19
42	Бологое	0.3	3	5	8	8	6	0.9		31
44	Удомля	0.4	3	4	6	8	6	1		28
45	Максатиха	0.1	1	3	4	4	4	0.5		17
46	Бежецк	0.3	2	4	6	7	5	1	0.04	25
47	Шлинский гидроузел	0.3	2	3	5	5	5	0.7		21
48	Усаты	0.1	2	4	6	6	5	0.6		24
49	Рождество	0.2	2	4	6	8	6	0.8		27
50	Кесова Гора	0.1	1	4	6	7	5	0.9		24
51	Вышний Волочек[1]	0.4	3	6	9	9	7	1		35
52	Ряд	0.4	2	6	9	8	7	1		34
53	Толмачи	0.2	3	6	8	9	8	1		35
54	Высоково	0.4	3	4	7	6	6	0.8	0.05	27
55	Кашин	0.2	3	6	9	9	7	1		35
56	Большие Сетки	0.2	3	6	9	9	7	1		35
59	Осташков	0.3	3	5	7	8	5	0.6		29

[1]In June 0.04 days with snow

Station No.	Station	X	XI	XII	I	II	III	IV	V	Year
60	Горицы	0.7	3	5	8	8	7	0.8		32
61	Лихославль	0.4	3	4	8	8	6	0.6		30
62	Троица-Нерль	0.5	3	6	9	7	6	0.6		32
63	Заречье	0.4	3	5	8	7	6	0.4		30
64	Кувшиново	0 2	3	5	8	8	7	1	0.1	32
65	Торжок	0.2	4	7	11	11	9	1	0.04	43
68	Яровинка	0.2	1	4	7	7	6	0.7		26
70	Медное	0 3	2	3	6	6	6	0.6		24
72	Савелово	0.1	3	5	6	6	5	0 9	0.1	26
73	Калинин	0.5	4	6	9	9	7	1		36
75	Бдыкь	0.2	3	7	10	9	8	0.8		38
80	Луковниково	0.2	4	6	11	10	8	1		40
82	Старица	0.4	3	5	8	8	6	1		31
83	Тургиново	0.4	3	5	9	9	7	1		34
84	Торопец	0.1	2	6	8	8	7	0 7		32
87	Хлопово-Городище	0 5	2	5	8	9	8	0.6		33
89	Ржев	0 4	3	4	7	7	6	1		28
91	Мостовая	0.2	2	3	8	8	7	0.9	0 2	29
93	Большое-Кобяково	0.2	2	3	8	7	6	0.5		27
95	Щучье	0.2	1	5	8	9	6	0 9		30
	MOSKOVSKAYa OBLAST									
98	Пушнолы	0	2	3	6	6	6	0.6		24
102	Клин	0 5	3	6	8	8	7	1		34
103	Дмитров	0 6	3	4	8	7	6	0 6		29
104	Загорск	1	4	6	8	8	8	2	0 01	37
109	Шаховская	0 4	3	5	8	8	6	1		31
110	Волоколамск	0 4	3	6	10	10	7	1		37
113	Мишнево	0 3	2	4	7	7	6	0 3		27
117	Починки	0 3	2	6	7	8	7	1		31
118	Ново-Иерусалим	0 3	3	5	8	8	6	0 8		31
120	Лосиноостровская	0 3	3	4	7	7	5	0 6		27
121	Москва, с.-х. академия	0 6	3	4	8	8	6	0 6		30
123	Тушино	0.4	1	4	6	6	5	0 6		23
124	Москва, ВДНХ	0.1	2	4	6	6	5	0 5		21
125	Павшино	0 5	2	3	7	6	5	0 5		21
126	Москва, Сокольники	0 3	3	5	7	7	6	0 9		29
127	Карповка	0 1	2	3	7	6	7	0 6		26
129	Павловский Посад	0 4	2	5	8	7	5	0 9		28
130	Москва, ГМО	0 4	2	3	5	6	3	0 1		20
131	Подмосковная	0 5	3	6	9	8	8	1		36
133	Немчиновка	0.9	3	5	9	8	9	1		36
134	Москва, МГУ	0.4	3	6	9	9	7	0 9		35
136	Москва, ЗИЛ	0 1	2	3	4	5	3	0 5		18
140	Собакино	1	4	6	12	10	11	1		45
141	Ленино-Дачное	0 3	2	4	5	6	6	0 7		24
142	Куровское	0 3	2	4	5	6	4	0 6		22
145	Черусти	0.2	3	6	10	8	6	0 3		34
146	Можайск	0.2	3	6	9	8	7	1		31
151	Наро-Фоминск	0.4	3	5	7	8	8	1		32
154	Старый Спас	0.7	3	5	7	8	6	0 8		30
156	Коломна	0.3	2	4	5	7	5	0 5		21
157	Михнево	0 3	2	3	6	7	6	0 7		25
161	Серпухов	0 4	3	6	7	9	6	0 7		32
163	Кашира	0.5	4	7	9	11	8	0 9		40

Station No.	Station	X	XI	XII	I	II	III	IV	V	Year
	VLADIMIRSKAYa OBLAST									
164	Сима	0.4	4	7	11	10	8	0.9		41
165	Юрьев-Польский [1]	0.6	4	7	12	9	9	1		43
166	Суздаль	0.5	3	6	9	6	6	0.7	0.04	31
167	Санниково и Яблонцы . . .	0.2	2	4	6	6	6	0.7		28
168	Александров [2] . .	0.9	4	8	9	9	8	2	0.1	41
170	Ковров	0.1	2	5	6	6	6	0.7		26
171	Вязники	0.4	3	6	9	8	7	1		34
172	Троицы	0.3	2	4	6	5	6	0.6		24
174	Гороховец . . .	0	2	4	6	6	5	0.5		24
176	Владимир . . .	0.4	3	5	8	6	7	0.8		30
180	Селивановское оп поле . . .	0.1	1	4	5	5	6	0.7		22
181	Петушки	0.6	3	5	7	7	6	1		30
183	Мошок	0.5	3	5	6	6	7	0.9		28
185	Гусь-Хрустальный	0.5	2	4	7	8	7	0.8		29
186	Муром	0.4	3	5	8	6	6	0.6		29
187	Черсево	0.6	2	5	6	6	5	0.6		25
188	Меленки	0.6	2	5	6	6	5	0.6		25
	SMOLENSKAYa OBLAST									
190	Карманово . . .	0.4	3	7	11	11	9	0.6		42
191	Сычевка [3]	0.2	2	5	8	8	6	0.7		30
193	Болшево . . .	0.1	3	6	9	10	8	1		37
194	Велиж . . .	0.2	3	6	10	8	7	1		35
195	Гжатск	0.6	4	6	11	10	9	0.1		41
196	Ново Пречистое	0.2	2	5	7	8	5	0.7		28
198	Демидов . .	0.3	2	5	8	9	6	0.9		31
199	Вязьма . . .	0.2	3	5	8	8	7	0.6	0.04	32
201	Духовщина . .	0.2	2	6	7	8	5	0.9	0.04	29
202	Надежда .	0	2	5	7	8	6	0.5		28
203	Сафоново . .	0.4	2	5	8	8	6	1		30
204	Мухино . . .	0.2	2	4	6	7	5	1		25
205	Темкино . .	0.2	2	4	6	7	5	1		25
206	Шокино .	0.2	2	5	8	9	7	0.9		32
207	Рудня	0.4	2	6	8	9	6	0.5		32
211	Смоленск . .	0.5	4	9	13	12	8	2		48
212	Ельня	0.4	4	6	10	10	8	2		40
213	Починок . .	0.5	3	6	10	9	7	1		36
214	Красиловка . .	0.4	2	4	8	7	5	0.7		27
215	Ускосы	0.2	2	5	9	9	6	0.6		32
217	Рославль . . .	0.7	4	6	10	10	7	1	0.1	39
218	Ершичи	0.2	2	6	9	8	8	0.8	0.05	34
	KALUZhSKAYa OBLAST									
219	Малоярославец . .	0.4	3	5	7	5	5	0.9	0.06	26
222	Беликово	0.2	2	4	7	6	5	0.9	0.1	25
224	Мосальск . .	0.2	2	5	9	7	6	0.8		30
225	Калуга . .	0.2	2	4	6	7	5	0.8		25
226	Спас-Деменск .	0.5	3	6	9	8	7	1	0.04	34
227	Соболевка . . .	0.3	2	4	6	6	5	0.7		24
228	Сухиничи . . .	0.2	2	5	6	7	6	1		27
229	Фаянсовая и Киров	0.2	2	4	6	5	5	0.8		23
230	Козельск .	0.2	2	4	5	6	6	0.9		24
231	Хотьково .	0.2	1	4	6	5	5	0.4		22
232	Жиздра	0.4	1	5	8	7	7	0.5		29

1. In June 0.06 days with snow
2. In June 0.1 days with snow
3. In September 0.04 days with snow

Station No.	Station	X	XI	XII	I	II	III	IV	V	Year
	RYaZANSKAYa OBLAST									
233	Тума	0.9	4	7	9	10	8	1		40
234	Елатьма	0.3	3	4	6	6	5	0.7		25
235	Касимов	0.4	2	4	6	7	5	0.5		25
236	Рыбное и Старое Веселово . . .	0.1	2	4	7	7	5	0.5		26
237	Рязань	0.2	3	7	11	11	8	0.7		41
239	Сасово	0.4	4	7	9	9	7	1		37
240	Шилово	0.4	2	5	8	7	6	0.6		29
241	Старожилово . . .	0.1	2	5	8	9	6	0.6		31
242	Михайлов	0.4	3	7	9	10	7	1		37
243	Шацк	0.3	3	6	7	7	6	0.8		30
245	Скопин	0.1	2	4	6	6	5	0.6		24
246	Павелец	0.7	3	6	9	9	7	0.8		36
247	Ряжск	0.3	2	6	8	10	6	0.6		33
248	Верда	0.3	2	4	8	7	5	0.4		27
	TYL'SKAYa OBLAST									
252	Алексин	0.3	3	4	5	7	5	0.6		25
253	Венев	0.5	2	5	7	8	6	0.7		29
254	Ханино	0.5	2	5	5	7	6	0.5		26
255	Тула	0.3	3	4	6	8	5	0.7		27
256	Узловая	0.3	2	5	6	7	5	0.5		26
257	Орлово	0.6	2	5	7	9	7	0.6		31
258	Мельгуново . . .	0.6	2	5	7	7	6	0.7		28
259	Белев	0.6	2	5	6	8	6	0.5	0.04	29
262	Волово	0.8	4	8	9	10	7	1	0.1	40
263	Чернь и Скуратово	0.5	2	6	10	10	8	0.7		37
265	Ефремов	0.3	2	4	6	6	5	0.3		24

ТАБЛИЦА 1а

Table 1a. Greatest number of days with snow.

Station No.	Station	X	XI	XII	I	II	III	IV	V	VI	Year
	YaROSLAVSKAYa OBLAST										
2	Владычное . . .	5	9	12	19	16	14	6			52
5	Семеновская . .	5	11	14	19	16	14	6	3		53
6	Пошехонье-Володарск	4	11	11	11	18	16	5			49
9	Шарна	4	11	11	13	16	16	4			50
10	Брейтово . . .	3	23	13	17	16	18	5	1		62
12	Мыс Рожновский	6	19	23	21	18	20	8			82
13	Данилов	5	15	14	19	15	16	5	1		62
15	Рыбинск, ГМО . .	4	14	16	18	17	20	5			74
16	Коприно	5	16	16	17	20	18	5			66
17	Исады	6	12	9	14	13	11	5			42
20	Обухово	4	8	14	12	13	14	4			49
21	Тутаев	5	15	18	19	20	16	7			74
22	Мышкино	4	9	14	12	19	16	5			54
23	Новое Село . . .	4	7	13	12	11	13	4			42
25	Ярославль . . .	7	12	15	19	17	17	6			65
26	Углич	2	13	12	12	13	12	5			45
29	Вёска	2	7	10	17	18	10	6			55
30	Высоково	3	7	8	11	11	13	4			41
31	Ростов	2	9	11	13	12	16	5			41
33	Переславль-Залесский	3	11	11	17	15	17	5			50

Station No.	Station	X	XI	XII	I	II	III	IV	V	VI	Year
34	Успенский с.-х. техникум . . .	5	20	11	15	15	15	5			64
	KALININSKAYa OBLAST										
35	Весьегонск . . .	4	13	11	13	15	18	3			53
36	Кесьма	5	17	14	17	17	18	7	2		61
40	Красный Холм . .	4	17	15	21	15	17	6			64
44	Удомля	3	9	13	16	14	18	4			46
45	Максатиха . . .	2	4	9	10	10	11	3			32
46	Бежецк	4	9	13	14	13	12	4	1		44
51	Вышний Волочек	3	18	13	17	19	13	7		1	57
52	Ряд	3	7	14	19	16	13	6			50
53	Толмачи	3	12	13	16	15	14	4			55
54	Высоково	3	10	12	12	12	13	4	1		55
55	Кашин	4	15	11	15	16	19	6			57
59	Осташков	3	13	14	13	14	10	5			49
60	Горицы	4	10	14	13	16	13	3			49
61	Лихославль . . .	4	12	12	14	14	11	5			46
62	Троица-Нерль . .	3	8	11	16	19	12	4			65
63	Заречье	3	11	10	15	18	15	2			55
64	Кувшиново . . .	3	14	14	13	17	13	7	2		66
65	Торжок	4	18	15	18	18	15	6	1		61
72	Савелово	2	13	13	13	14	15	4	2		46
73	Калинин	4	19	17	17	17	15	6			61
75	Бдынь	3	12	13	18	15	14	4			56
80	Луковниково . . .	4	17	15	15	17	15	5			61
82	Старица	6	16	14	15	15	14	5			54
83	Тургиново . . .	3	19	14	15	17	17	5			60
87	Хлопово-Городище	3	9	14	14	15	13	3			50
89	Ржев	3	16	14	14	14	11	5			53
91	Мостовая	3	13	12	16	15	14	6	3		55
	MOSKOVSKAYa OBLAST										
102	Клин	2	17	13	14	17	18	6			52
103	Дмитров	4	9	10	15	13	11	4			46
104	Загорск	7	18	14	18	19	14	5	1		64
109	Шаховская . . .	4	15	18	14	15	16	5			59
110	Волоколамск . . .	2	13	16	16	19	14	4			59
117	Почники	3	9	12	14	16	18	6			55
124	Москва, ВДНХ . .	1	9	14	10	19	10	3			41
126	Москва, Сокольники	3	9	14	14	14	11	3			47
131	Подмосковная . .	4	8	16	19	15	17	8			63
133	Немчиновка . . .	6	12	12	16	14	16	8			56
142	Куровское	3	8	10	12	15	9	4			38
145	Черусти	1	10	13	18	15	12	1			47
146	Можайск	3	10	16	14	15	15	7			55
151	Наро-Фоминск . .	3	13	14	15	14	15	5			55
157	Михнево	3	8	11	13	15	10	5			39
163	Кашира	4	12	19	16	19	14	6			58
	VLADIMIRSKAYa OBLAST										
164	Сима	3	10	14	16	19	14	4			51
165	Юрьев-Польский	2	15	13	20	15	14	6		1	62
166	Суздаль	4	9	12	16	14	13	3	1		51
167	Санниково . . .	2	11	8	11	8	10	2			41
168	Александров . . .	6	17	15	19	17	20	6	2	1	71
170	Ковров	1	8	18	14	16	16	4			52
174	Гороховец . . .		7	11	14	15	11	2			39
176	Владимир . . .	3	7	14	14	9	13	5			48
180	Селивановское опытное поле . . .	2	9	10	16	11	12	3			43

Station No	Station	X	XI	XII	I	II	III	IV	V	Year
181	Петушки	4	10	13	11	15	11	4		54
183	Мошок	2	13	13	13	12	14	3		52
185	Гусь Хрустальный	4	10	11	12	15	15	5		45
186	Муром	3	9	10	21	11	11	2		43
	SMOLENSKAYa OBLAST									
191	Сычевка[1]	3	8	14	15	19	14	8		66
193	Вознево	2	9	14	17	15	13	5		60
194	Велиж	3	18	19	18	20	15	5		74
195	Гжатск	3	14	15	21	20	16	4		66
196	Ново Пречистое	1	6	12	15	19	14	3		64
198	Демидов	2	10	16	15	16	13	5		56
199	Вильма	3	15	10	16	14	15	2	1	53
201	Духовщина	2	8	17	15	16	12	4	1	60
203	Сафоново	3	10	21	13	13	16	4		55
205	Темкино	2	7	15	14	17	9	7		55
206	Шокино	2	5	15	12	16	14	4		53
207	Рудня	3	17	23	20	19	20	9		79
211	Смоленск	2	9	14	12	17	15	3		56
212	Ельня	4	20	21	18	18	17	7		71
213	Починок	3	17	20	18	16	14	7		68
215	Ярцево	2	13	14	16	16	11	3		54
217	Рославль	3	11	14	22	18	14	5	1	72
218	Гришино	2	8	15	17	15	13	3	1	53
	KALUZhSKAYa OBLAST									
219	Малоярославец	2	10	10	14	11	10	6	1	48
224	Мосальск	2	10	18	13	12	11	5		49
225	Калуга	3	8	9	13	12	10	6		39
226	Спас Деменск	3	7	13	15	16	12	4	1	59
228	Сухиничи	2	8	13	12	16	12	6		44
229	Фаинсовая и Киров	2	6	11	10	11	10	6		40
232	Жиздра	4	8	14	18	14	14	3		48
	RYaZANSKAYa OBLAST									
233	Гума	5	9	17	22	18	17	4		64
237	Рязань	2	13	19	21	22	15	1		68
239	Сасово	2	11	21	16	15	15	5		54
240	Шилово	4	13	15	19	18	13	4		52
241	Сторожилово	1	7	19	17	15	15	4		63
242	Михайлов	4	15	15	19	17	13	5		57
245	Скопин	1	5	12	13	13	13	4		42
246	Пителен	4	16	18	13	21	17	5		62
247	Ряжск	4	15	18	16	20	13	3		55
248	Верда	5	12	17	13	15	14	3		50
	TUL'SKAYa OBLAST									
253	Венев	4	11	14	17	21	16	4		51
255	Тула	3	10	13	14	19	13	5		56
256	Узловая	3	8	12	13	16	12	5		45
259	Белев	4	18	13	13	15	14	3	1	58
262	Волово	5	18	20	17	24	12	3	2	59
263	Черн и Скуратово	4	7	15	17	18	17	4		70

1. In September greatest number of days with snow 1.

Table 2. Mean number of days with drifing-snow storms.

№ станции	Станция	X	XI	XII	I	II	III	IV	Год
	YaROSLAVSKAYa OBLAST								
6	Пошехонье-Володарск	0.2	0.5	0.7	1	1	2	0.2	6
12	Мыс Рожновский	0.1	1	2	4	3	3	0.5	14
31	Ростов	0.1	0.3	2	2	2	2	0.1	9
33	Переславль-Залесский	0.05	0.3	2	2	3	2	0.05	9
	KALININSKAYa OBLAST								
36	Кесьма		0.5	1	2	2	2	0.2	8
55	Кашин	0.1	0.4	1	2	1	1		6
65	Торжок		1	3	3	3	2	0.2	12
82	Старица	0.05	0.8	2	3	2	2	0.05	10
	MOSKOVSKAYa OBLAST								
102	Клин	0.1	0.6	1	2	2	2	0.1	8
133	Немчиновка	0.2	0.6	0.6	4	2	2	0.2	10
146	Можайск		0.5	1	3	2	2	0.2	9
163	Кашира		0.6	2	3	3	2	0.1	11
	VLADIMIRSKAYa OBLAST								
168	Александров		0.2	0.8	1	2	1	0.2	5
171	Вязники		0.6	2	3	4	2		12
185	Гусь Хрустальный		0.3	0.9	2	2	2	0.2	7
	SMOLENSKAYa OBLAST								
191	Сычевка		1	1	3	2	2	0.1	9
194	Велиж		0.5	0.8	2	3	3	0.2	10
199	Вяльма		0.3	0.6	2	1	1	0.2	5
211	Смоленск	0.4	0.4	0.7	3	2	2	0.2	8
	KALUZhSKAYa OBLAST								
225	Калуга		0.2	0.7	1	1	1	0.1	4
226	Спас Деменск		0.5	2	3	2	2	0.2	10
228	Сухиничи		0.1	0.5	2	0.6	0.5		4
232	Жиздра		0.1	0.3	0.7	0.7	1	0.1	3
	RYaZANSKAYa OBLAST								
234	Елатьма	0.04	0.5	1	2	3	2	0.1	9
237	Рязань		0.6	1	3	2	1	0.4	8
240	Шилово		0.9	2	4	3	3	0.1	13
243	Шацк		0.4	1	4	3	2		10
246	Павелец	0.1	0.8	2	4	4	2	0.1	13
	TUL'SKAYa OBLAST								
255	Тула		0.1	2	3	1	1	0.2	7
259	Белев		0.7	0.6	3	2	2	0.05	8
262	Волово	0.1	0.8	2	4	4	3	0.2	14
263	Чернь и Скуратово		0.6	1	3	3	2	0.2	10
265	Ефремов			1	2	2	1	0.06	6

Table 3. Duration of snowstorms (hours).

Station No.	Station	X	XI	XII	I	II	III	IV	V	Year	Duration of snowstorms per day with snowstorms, year [sic]
	YaROSLAVSKAYa OBLAST										
6	Пошехонье-Володарск	2	16	45	65	59	58	7		252	7.2
12	Мыс Рожновский	6	56	92	129	96	81	14		474	7.6
25	Ярославль	3	27	61	79	79	65	13		327	8.0
	KALININSKAYa OBLAST										
51	Вышний Волочек	3	32	57	81	87	60	4		324	8.3
73	Калинин	3	34	44	74	73	59	7		294	7.7
84	Торопец	1	9	29	44	45	38	4		170	6.9
89	Ржев	3	18	32	47	57	42	7		206	7.2
	MOSKOVSKAYa OBLAST										
102	Клин	3	25	44	61	79	57	8		277	7.9
124	Москва, ВДНХ	0.1	15	27	40	51	39	4		176	7.5
146	Можайск	2	19	43	60	63	50	6		243	7.5
163	Кашира	4	48	57	89	83	60	7		328	7.9
	VLADIMIRSKAYa OBLAST										
165	Юрьев-Польский	3	27	56	97	83	78	5		349	8.4
186	Муром	3	19	34	54	47	40	2		199	7.8
	SMOLENSKAYa OBLAST										
199	Вязьма	2	23	43	61	70	53	3	0.3	255	8.0
211	Смоленск	4	31	76	116	116	80	11		434	8.2
213	Починок	4	20	43	73	73	51	10		274	7.8
217	Рославль	5	26	46	87	93	64	7	0.4	328	8.7
	KALUZhSKAYa OBLAST										
225	Калуга	1	14	30	46	43	36	6		176	7.0
228	Сухиничи	2	16	33	45	56	42	6		200	7.3
	RYaZANSKAYa OBLAST										
233	Тума	6	27	51	78	87	77	7		333	8.4
237	Рязань	1	35	63	99	108	78	6		390	8.8
239	Сасово	3	22	47	68	67	50	4		261	7.2
240	Шилово	2	16	49	66	79	54	3		269	8.7
242	Михайлов	5	24	52	65	78	53	6		283	7.6
246	Павелец	4	26	47	70	77	56	4		284	7.4
247	Ряжск	1	15	44	56	81	48	3		248	7.7
	TUL'SKAYa OBLAST										
255	Тула	4	24	44	55	76	51	4		258	8.0
259	Белев	4	19	35	42	60	42	2	0.1	204	7.7
263	Чернь и Скуратово	3	15	49	84	94	67	4		316	8.3

Table 3a. Greatest duration of snowstorms (hours)

Station No.	Station	X	XI	XII	I	II	III	IV	V	VI	Year
	YaROSLAVSKAYa OBLAST										
6	Пошехонье-Володарск	36	78	102	124	104	113	52			405
12	Мыс Рожновский	28	212	177	178	185	153	58			673
25	Ярославль	40	124	185	166	195	156	72			557
	KALININSKAYa OBLAST										
51	Вышний Волочек	38	132	168	190	155	102	27		4	596
73	Калинин	32	187	140	152	176	170	35			585
84	Торопец	30	87	104	102	114	98	18			354
89	Ржев	25	131	145	121	127	91	30			455
	MOSKOVSKAYa OBLAST										
102	Клин	39	131	137	123	159	159	55			434
124	Москва, ВДНХ	2	65	168	94	166	91	27			342
146	Можайск	35	78	164	143	115	121	48			443
163	Кашира	42	85	164	157	141	128	65			460
	VLADIMIRSKAYa OBLAST										
165	Юрьев Польский	18	110	134	196	192	137	27			590
186	Муром	24	78	97	120	106	106	12			355
	SMOLENSKAYa OBLAST										
199	Вязьма	28	110	121	128	159	137	21			443
211	Смоленск	32	175	204	203	235	174	64			762
213	Починок	36	125	244	197	212	124	42			650
217	Рославль	34	67	127	207	234	167	37	8		720
	KALUZhSKAYa OBLAST										
225	Калуга	14	45	85	135	95	82	48			299
228	Сухиничи	24	59	119	99	152	112	47			343
	RYaZANSKAYa OBLAST										
233	Тума	38	91	138	215	188	162	35			592
237	Рязань	22	140	254	221	300	154	30			724
239	Сасово	42	105	238	137	113	158	34			554
240	Шилово	26	101	190	145	188	144	24			465
242	Михайлов	39	151	179	117	178	137	27			497
246	Павелец	28	156	168	122	185	130	28			502
247	Ряжск	15	97	208	131	208	134	28			487
	TUL'SKAYa OBLAST										
255	Тула	43	78	154	126	136	134	42			512
259	Белев	62	133	165	108	145	114	27	2		483
263	Чернь и Скуратово	34	61	169	167	192	178	29			532

Table 4. Recurrence of various wind directions during snowstorms (%).

Station No.	Station	N	NE	E	SE	S	SW	W	NW
	YaROSLAVSKAYa OBLAST								
21	Тутаев	8	7	9	25	16	13	11	11
	KALININSKAYa OBLAST								
46	Бежецк	10	8	10	22	20	11	7	12
51	Вышний Волочек	6	5	7	26	19	12	10	15
73	Калинин	19	9	10	17	19	20	7	8
89	Ржев	9	11	12	23	21	9	7	8
	MOSKOVSKAYa OBLAST								
121	Москва, с.-х. академия	11	3	7	31	17	10	7	14
140	Собакино	11	9	14	17	18	14	8	9
	VLADIMIRSKAYa OBLAST								
186	Муром	8	10	4	14	41	12	3	8
	SMOLENSKAYa OBLAST								
194	Велиж	9	9	9	17	17	14	12	13
199	Вязьма	12	6	11	20	14	18	10	9
211	Смоленск	6	6	12	16	21	16	11	12
	KALUZhSKAYa OBLAST								
225	Калуга	6	10	18	17	15	13	14	7
232	Жиздра	10	10	12	15	14	15	12	12
	RYaZANSKAYa OBLAST								
234	Елатьма	10	5	5	29	20	16	5	10
237	Рязань . . .	6	6	10	20	23	19	8	8
246	Павелец	7	7	7	22	21	17	11	8
	TUL'SKAYa OBLAST								
255	Тула	6	6	20	23	14	11	10	7
262	Волово	7	8	14	20	16	16	10	9

Table 5. Recurrence of various wind velocities during snowstorms (%).

Station No.	Station	Velocity (m/s) <6	6–9	10–13	14–17	18–20	>20
	YaROSLAVSKAYa OBLAST						
21	Гутаев	16.7	66.3	14.0	3.0	0.05	
	KALININSKAYa OBLAST						
46	Бежецк	8.4	52.7	27.1	10.9	0.9	
51	Вышний Волочек	6.8	74.2	14.5	4.2	0.3	
73	Калинин	2.7	42.6	30.5	23.5	0.7	
89	Ржев	4.8	57.9	25.2	10.5	1.6	
	MOSKOVSKAYa OBLAST						
121	Москва, с.-х. академия	17.3	60.7	17.4	2.6	1.8	0.2
140	Собакино	21.3	54.5	18.7	5.4	0.0	0.1
	VLADIMIRSKAYa OBLAST						
186	Муром	4.4	79.9	13.9	1.7	0.1	
	SMOLENSKAYa OBLAST						
194	Велиж	7.1	65.4	15.4	11.6	0.5	
199	Вяльма	8.8	62.4	26.2	2.6		
211	Смоленск	1.7	46.2	38.2	12.7	1.1	0.1
	KALUZhSKAYa OBLAST						
225	Калуга	8.4	49.9	31.0	10.5	0.2	
232	Жиздра	21.1	54.0	18.6	5.4	0.9	
	RYaZANSKAYa OBLAST						
234	Елатьма	5.4	65.8	22.3	5.5	1.0	
237	Рязань	2.3	27.7	34.9	28.5	6.5	0.1
246	Павелец	2.0	29.5	41.2	24.2	2.8	0.3
	TUL'SKAYa OBLAST						
255	Тула	5.4	37.7	32.1	22.0	2.8	
262	Волово	1.5	51.0	34.3	12.7	0.5	

Table 6. Recurrence of air temperature within various limits during snowstorms.

Temperature from	Temperature to	X	XI	XII	I	II	III	IV	V	VI	year
YaROSLAVSKAYa OBLAST											
21. Тутаев											
≤−30.0					0.6						0.2
−29.9	−25.0			0.3	0.2						0.1
−24.9	−20.0			3	1	2	0.5				2
−19.9	−15.0		2	11	11	10	3				8
−14.9	−10.0	21	16	22	22	29	16	1			21
−9.9	−5.0	29	38	39	40	36	37	20			37
−4.9	0.0	50	43	25	23	22	43	77			31
>0.0			1		2	0.6	1	2			0.9
KALININSKAYa OBLAST											
46. Бежецк											
≤−30.0					0.5						0.1
−29.9	−25.0				0.9	0.4					0.3
−24.9	−20.0			2	0.9	2					1
−19.9	−15.0			13	6	6	2				5
−14.9	−10.0	20	7	29	30	26	18				23
−9.9	−5.0	30	33	30	37	37	37	18			35
−4.9	0.0	50	56	24	24	26	40	77	100		34
>0.0			4	2	0.5	3	3	5			2
51. Вышний Волочек											
−29.9	−25.0					0.3					0.1
−24.9	−20.0			0.4		1	2				0.7
−19.9	−15.0		0.8	6	6	8	4				5
−14.9	−10.0	33	10	22	22	24	10				19
−9.9	−5.0	25	39	35	37	39	40	8			37
−4.9	0.0	42	45	34	33	27	40	81		100	35
>0.0			5	3	2	1	4	11			3
73. Калинин											
−24.9	−20.0			0.5	0.3	0.9					0.4
−19.9	−15.0			4	3	7	3				4
−14.9	−10.0	8	8	23	25	25	12				19
−9.9	−5.0	38	35	36	38	34	34	25			36
−4.9	0.0	39	51	33	31	30	46	59			37
>0.0		15	6	4	3	3	5	16			4
89. Ржев											
−29.9	−25.0			0.7		0.4					0.2
−24.9	−20.0			0.7		0.4					0.2
−19.9	−15.0			7	8	7	0.5				5
−14.9	−10.0	10	15	30	22	24	9				19
−9.9	−5.0	40	36	34	37	41	45	23			39
−4.9	0.0	50	48	27	31	26	43	56			35
>0.0			1	1	2	1	2	21			2

Temperature from	Temperature to	X	XI	XII	I	II	III	IV	V	VI	year
MOSKOVSKAYa OBLAST											
121. Москва, с.-х. академия											
−29.9	−25.0					0.8					0.2
−24.9	−20.0			3	0.7	2					1
−19.9	−15.0			18	5	5	9				7
−14.9	10.0		17	25	20	30	19				22
−9.9	−5.0	50	29	28	51	40	34	37			39
−4.9	0.0	50	50	25	21	21	33	36			28
>0.0			4	1	2	0.8	5	27			3
140. Собакино											
−29.9	−25.0			0.6							0.1
−24.9	−20.0			1	2	3	0.4				1
−19.9	−15.0			8	8	5	5				6
14.9	10.0		10	22	25	30	12				21
9.9	−5.0	22	41	42	36	36	41	26			38
−4.9	0.0	67	46	23	27	24	39	66			31
>0.0		11	3	3	2	2	4	8			3
VLADIMIRSKAYa OBLAST											
186. Муром											
−29.9	−25.0			0.7							0.1
24.9	−20.0			2	2	2					1
19.9	−15.0		1	10	8	4	0.6				5
−14.9	10.0		3	21	29	28	20				22
−9.9	−5.0	27	46	32	32	35	45				36
−4.9	0.0	60	42	31	27	29	28	100			32
>0.0		13	8	3	2	2	6				4
SMOLENSKAYa OBLAST											
194. Велиж											
−24.9	−20.0					1					0.3
−19.9	−15.0			2	6	4	2				3
−14.9	−10.0		7	13	17	23	10				15
−9.9	−5.0	100	38	47	32	38	37	32			38
−4.9	−0.0		47	35	36	31	46	59			38
>0.0			8	3	9	3	5	9			6
199. Вязьма											
−24.9	−20.0			2	1	2	0.4				1
−19.9	15.0		0.9	2	6	4	3				4
−14.9	−10.0	22	15	23	24	27	13				21
−9.9	−5.0	45	28	39	34	37	38	57			36
−4.9	0.0	33	55	31	35	28	43	33			36
>0.0			0.9	3	0.4	2	3	10			2
211. Смоленск											
−29.9	−25.0			0.8		0.2					0.2
24.9	−20.0			0.4	1	1					0.7
−19.9	−15.0			2	6	6	2				4
−14.9	10.0	7	11	16	19	25	9				17
9.9	−5.0	43	31	44	33	34	36	24			35
4.9	0.0	36	52	34	38	31	50	60			39
>0.0		14	6	3	3	3	3	16			4

Temperature from	Temperature to	X	XI	XII	I	II	III	IV	V	VI	year
					KALUZhSKAYa OBLAST						
					225. Калуга						
−24.9	−20.0						2				0.4
−19.9	−15.0		2	1	6	9	4				5
−14.9	−10.0		23	23	20	26	10				20
−9.9	−5.0	43	26	40	50	34	42	13			39
−4.9	0.0	57	43	32	21	29	39	80			33
>0.0			6	4	3	2	3	7			3
					232. Жиздра						
−24.9	−20.0			0.6	0.4	0.7					0.4
−19.9	−15.0			5	8	4	1				4
−14.9	−10.0		10	14	23	28	14				19
−9.9	−5.0	61	43	40	33	35	36	25			37
−4.9	0.0	39	46	36	34	29	45	60			37
>0.0			1	4	2	4	4	15			3
					RYaZANSKAYa OBLAST						
					234. Елатьма						
−24.9	−20.0			3	0.7						0.7
−19.9	−15.0		7	10	4	6	0.8				5
−14.9	−10.0		10	18	31	27	26				23
−9.9	−5.0	45	42	39	33	42	39				38
−4.9	0.0	33	38	29	29	23	30	92			30
>0.0		22	3	1	2	2	4	8			3
					237. Рязань						
< −30.0						0.3					0.1
−29.9	−25.0			0.4		0.5					0.2
−24.9	−20.0			3	0.6	0.5	0.4				0.9
−19.9	−15.0		0.8	8	10	14	5				9
−14.9	−10.0		8	20	27	22	16	5			20
−9.9	−5.0	67	46	45	30	35	43	32			38
−4.9	0.0	33	42	23	30	27	34	63			31
>0.0			3	0.4	2	1	2				1
					246. Павелец						
< −30.0					0.4						0.1
−29.9	−25.0					0.9					0.3
−24.9	−20.0			3	3	0.9					1
−19.9	−15.0		1	8	8	10	4				7
−14.9	−10.0	5	12	23	27	28	14				22
−9.9	−5.0	23	34	39	33	33	45	7			36
−4.9	0.0	67	50	24	28	27	35	86			32
>0.0		5	3	3	1	0.6	2	7			2
					TUL'SKAYa OBLAST						
					255. Тула						
−29.9	−25.0				0.5	0.8					0.4
−24.9	−20.0			0.7		0.4					0.2
−19.9	−15.0			5	3	10	3				5
−14.9	−10.0		17	22	19	27	10				20
−9.9	−5.0	10	31	34	42	29	39	10			34
−4.9	0.0	90	45	36	32	30	47	90			38
>0.0			7	2	4	3	1				3

Temperature from	Temperature to	X	XI	XII	I	II	III	IV	V	VI	year
					262. Волово						
< −30.0					0.3						0.1
−29.9	−25.0					0.5					0.1
−24.9	−20.0			1	4	2					2
−19.9	−15.0		0.8	10	9	11	4				8
−14.9	−10.0	4	18	22	33	31	14				24
−9.9	−5.0	16	27	38	26	32	41	13			32
−4.9	0.0	72	52	29	26	23	41	87	100		33
>0.0		8	2	0.4	2	0.8	0.4				1

Table 7. Recurrence of various number of days with snowstorms during a year.

No. of days	Recurrence
YaROSLAVSKAYa OBLAST	
5. Семеновское	
21−30	27
31−40	42
41−50	26
51−60	5
6. Пошехонье-Володарск	
11−20	8
21−30	40
31−40	20
41−50	32
20. Обухово	
11−20	24
21−30	38
31−40	33
41−50	5
21. Тутаев	
11−20	7
21−30	11
31−40	14
41−50	39
51−60	18
61−70	7
71−80	4
22. Мышкино	
11−20	12
21−30	38
31−40	42
41−50	4
51−60	4
25. Ярославль	
11−20	3
21−30	7
31−40	28
41−50	45
51−60	14
61−70	3
26. Углич	
11−20	12
21−30	33
31−40	42
41−50	13
31. Ростов	
11−20	17
21−30	42
31−40	38
41−50	3
34. Успенский с.-х. техникум	
11−20	15
21−30	30
31−40	25
41−50	20
51−60	5
61−70	6
KALININSKAYa OBLAST	
36. Кесьма	
21−30	4
31−40	27
41−50	46
51−60	18
61−70	5
45. Максатиха	
1−10	22
11−20	56
21−30	18
31−40	4
46. Бежецк	
1−10	4
11−20	19
21−30	44
31−40	26
41−50	7
51. Вышний Волочек	
11−20	24
21−30	22
31−40	30
41−50	11
51−60	13
53. Толмачи	
21−30	42
31−40	29
41−50	21
51−60	8
55. Кашин	
11−20	8
21−30	31
31−40	38
41−50	15
51−60	8
59. Осташков	
11−20	27
21−30	31
31−40	31
41−50	11

No. of days	Recurrence
64. Кувшиново	
11–20	8
21–30	34
31–40	31
41–50	23
51–60	
61–70	4
65. Торжок	
21–30	9
31–40	35
41–50	35
51–60	17
61–70	4
73. Калинин	
11–20	22
21–30	11
31–40	30
41–50	15
51–60	15
61–70	7
82. Старица	
1–10	4
11–20	12
21–30	38
31–40	17
41–50	21
51–60	8
83. Тургиново	
11–20	9
21–30	39
31–40	4
41–50	26
51–60	22
89. Ржев	
1–10	4
11–20	23
21–30	42
31–40	12
41–50	11
51–60	8
MOSKOVSKAYa OBLAST	
102. Клин	
21–30	35
31–40	44
41–50	17
51–60	4
104. Загорск	
11–20	5
21–30	36
31–40	18
41–50	18
51–60	14
61–70	9

No. of days	Recurrence
109. Шаховская	
11–20	29
21–30	17
31–40	33
41–50	13
51–60	8
110. Волоколамск	
11–20	11
21–30	22
31–40	26
41–50	30
51–60	11
117. Починки	
11–20	13
21–30	35
31–40	35
41–50	9
51–60	8
142. Куровское	
1–10	4
11–20	46
21–30	38
31–40	12
146. Можайск	
11–20	8
21–30	29
31–40	42
41–50	17
51–60	4
151. Наро-Фоминск	
11–20	9
21–30	36
31–40	32
41–50	18
51–60	5
163. Кашира	
11–20	4
21–30	18
31–40	30
41–50	35
51–60	13
VLADIMIRSKAYa OBLAST	
168. Александров	
1–10	7
11–20	10
21–30	10
31–40	18
41–50	29
51–60	18
61–70	4
71–80	4

No. of days	Recurrence
170. Ковров	
1–10	7
11–20	28
21–30	31
31–40	24
41–50	7
51–60	3
174. Гороховец	
11–20	42
21–30	37
31–40	21
176. Владимир	
11–20	17
21–30	39
31–40	33
41–50	11
180. Селивановское оп. поле	
1–10	10
11–20	38
21–30	31
31–40	17
41–50	4
185. Гусь-Хрустальный	
11–20	15
21–30	41
31–40	37
41–50	7
186. Муром	
1–10	3
11–20	10
21–30	52
31–40	21
41–50	14
SMOLENSKAYa OBLAST	
191. Сычевка	
11–20	20
21–30	32
31–40	36
41–50	4
51–60	4
61–70	4
194. Велиж	
11–20	22
21–30	26
31–40	13
41–50	17
51–60	9
61–70	9
71–80	4

No. of days	Recurrence
196. Ново-Пречистое	
11–20	37
21–30	32
31–40	21
41–50	5
51–60	
61–70	5
198. Демидов	
11–20	13
21–30	30
31–40	39
41–50	9
51–60	9
199. Вязьма	
1–10	4
11–20	15
21–30	23
31–40	31
41–50	19
51–60	8
201. Духовщина	
1–10	4
11–20	29
21–30	25
31–40	21
41–50	17
51–60	4
205. Темкино	
1–10	4
11–20	38
21–30	29
31–40	17
41–50	8
51–60	4
211. Смоленск	
21–30	9
31–40	17
41–50	31
51–60	17
61–70	17
71–80	9
212. Ельня	
1–10	4
11–20	5
21–30	22
31–40	22
41–50	26
51–60	13
61–70	4
71–80	4
213. Починок	
11–20	17
21–30	33
31–40	8
41–50	17
51–60	17
61–70	8
217. Рославль	
1–10	4
11–20	8
21–30	19
31–40	19
41–50	31
51–60	15
61–70	
71–80	4
KALUZhSKAYa OBLAST	
219. Малоярославец	
1–10	13
11–20	31
21–30	35
31–40	17
41–50	4
225. Калуга	
11–20	29
21–30	33
31–40	38
226. Спас-Деменск	
11–20	9
21–30	19
31–40	48
41–50	19
51–60	5
228. Сухиничи	
11–20	8
21–30	56
31–40	32
41–50	4
232. Жиздра	
1–10	5
11–20	8
21–30	18
31–40	36
41–50	9
51–60	
61–70	14
RYaZANSKAYa OBLAST	
233. Тума	
1–10	4
11–20	
21–30	15
31–40	40
41–50	26
51–60	11
61–70	4
237. Рязань	
21–30	14
31–40	27

No. of days	Recurrence
41–50	45
51–60	9
61–70	5

239. Сасово

No. of days	Recurrence
11–20	7
21–30	21
31–40	41
41–50	21
51–60	10

240. Шилово

No. of days	Recurrence
11–20	17
21–30	38
31–40	21
41–50	21
51–60	3

241. Старожилово

No. of days	Recurrence
1–10	4
11–20	11
21–30	42
31–40	27
41–50	8
51–60	4
61–70	4

242. Михайлов

No. of days	Recurrence
11–20	11
21–30	15
31–40	33
41–50	30
51–60	11

246. Павелец

No. of days	Recurrence
11–20	7
21–30	21
31–40	39
41–50	25
51–60	4
61–70	4

247. Ряжск

No. of days	Recurrence
11–20	10
21–30	38
31–40	24
41–50	24
51–60	4

248. Верда

No. of days	Recurrence
11–20	24
21–30	44
31–40	20
41–50	12

TUL'SKAYa OBLAST

253. Венев

No. of days	Recurrence
11–20	19
21–30	42
31–40	27
41–50	8
51–60	4

255. Тула

No. of days	Recurrence
1–10	4
11–20	38
21–30	19
31–40	[illegible]
41–50	27
51–60	4

256. Узловая

No. of days	Recurrence
11–20	41
21–30	29
31–40	26
41–50	4

259. Белев

No. of days	Recurrence
1–10	7
11–20	19
21–30	37
31–40	22
41–50	4
51–60	11

262. Волово

No. of days	Recurrence
11–20	8
21–30	17
31–40	33
41–50	13
51–60	29

263. Чернь и Скуратово

No. of days	Recurrence
11–20	12
21–30	21
31–40	17
41–50	38
51–60	8
61–70	4

SECTION 4

STORMS

Table 1.

Mean Number of Days with Storms

Station Nr.	Station	III	IV	V	VI	VII	VIII	IX	X	Year
	YAROSLAVSKAYA OBLAST									
2	Владычное		0.3	3	6	7	5	1	0.04	22
4	Кукобой		0.5	3	6	7	5	0.8		22
5	Семеновское		0.5	3	6	6	6	1		22
6	Пошехонье-Володарск		0.4	3	6	8	5	1	0.03	23
9	Шарна		0.4	3	7	8	5	2		25
10	Брейтово		0.8	3	6	7	6	1		24
12	Мыс Рожновский		0.5	4	7	9	6	1	0.04	28
13	Даниилов		0.3	3	6	8	4	0.9		22
15, 18	Рыбинск		0.5	3	5	7	5	1	0.03	22
16	Коприно		0.8	3	6	6	5	1		22
17	Исады		0.6	3	6	7	5	1		23
20	Обухово		0.7	2	6	7	5	1	0.04	22
21	Гутаев		0.4	3	6	7	5	1		22
22	Мышкино		0.7	3	6	8	5	1	0.07	24
23	Новое Село		0.7	3	7	8	6	1	0.08	26
25	Ярославль		0.4	3	6	8	5	1	0.03	23
26	Углич		0.5	3	7	8	5	1	0.1	25
29	Весьа		0.5	2	6	7	5	2		22
31	Ростов	0.03	0.5	4	7	9	6	2		29
33	Переславль-Залесский		0.4	4	6	9	6	1	0.03	26
34	Успенский с.-х. техникум		0.5	4	6	7	5	1		24
	KALININSKAYA OBLAST									
35	Весьегонск		0.7	4	6	7	6	0.9		25
36	Кесьма		0.5	3	6	7	5	0.8		22
37	Березовский Рядок		0.6	3	6	7	4	1		22
39	Котлован		0.4	4	6	7	4	1	0.06	22
40	Красный Холм		0.4	3	6	7	5	0.8		22
41	Спас-Забережье		0.8	4	5	6	4	1		21
42	Бологое		0.6	4	6	9	5	1		26
44	Удомля		0.9	4	6	7	5	1		24
45	Максатиха		0.6	3	6	7	5	1		23
46	Бежецк		0.6	3	7	7	5	1		24
49	Рождество		1	4	7	9	5	2	0.05	28
51	Вышний Волочек		0.8	4	6	8	4	1		24
52	Рыт		1	4	5	7	4	2		23
53	Тальмачи		0.9	4	6	8	5	1		25
54	Высоково		0.9	4	6	7	5	2		25
55	Кашин		0.4	3	7	8	5	1	0.03	24
58	Ивановское		0.6	4	7	9	5	2		28
59	Осташков[1]		0.5	4	6	9	4	2		26
63	Горицы		0.4	3	7	8	5	1	0.03	24
64	Лихославль		1	4	7	8	5	2		27
64	Кушниково[2]	0.07	0.7	4	6	9	5	1		26
65	Торжок[3]		0.8	4	6	8	5	1		25
72	Савелово		0.7	4	7	8	6	1		27
73	Калинин		0.7	4	6	8	5	1	0.03	25
74	Пьяково		0.9	4	6	7	5	2		25
80	Луковниково		1	3	7	8	6	2		27
82	Старица		0.6	3	6	9	5	0.9		24
83	Гуриново		0.7	4	7	9	7	1	0.04	29

[1] In November 0.03 day with storm.
[2] In November 0.04 day with storm.
[3] In November 0.04 day with storm.

Station Nr.	Station	III	IV	V	VI	VII	VIII	IX	X	Year
84	Торопец	0.04	0.6	4	7	9	6	2	0.04	29
85	Молодой Туд . . .		0.9	4	7	7	4	1		24
88	Западная Двина . .		0.5	4	6	7	4	1	0.03	23
89	Ржев		0.8	4	6	9	5	1		26
91	Мостовая[1] . . .	0.07	1	4	7	8	5	2	0.07	27
94	Белый		0.8	4	6	8	5	2	0.07	26
	MOSKOVSKAYA OBLAST									
101	Яхрома, низинная ст.		0.5	3	6	7	5	0.8	0.07	22
102	Клин		0.8	4	6	8	5	1	0.07	25
103	Дмитров		0.8	4	6	8	6	1		26
104	Загорск		0.6	4	6	8	6	2	0.1	27
109	Шаховская . . .		0.5	4	6	8	5	2	0.03	26
110	Волоколамск . . .		0.5	4	6	8	6	1	0.03	26
117	Почники		0.5	4	6	8	5	1	0.2	25
118	Ново-Иерусалим	0.03	0.4	3	7	8	6	1	0.03	25
120	Лосиноостровская	0.04	0.6	4	6	8	6	1	0.04	26
121	Москва, с.-х. академия	0.07	0.6	3	6	7	5	1	0.07	23
124	Москва, ВДНХ . .	0.1	0.8	4	7	7	6	2	0.2	27
129	Павловский Посад		0.4	4	6	7	5	1	0.1	23
130	Москва, ГМО . .	0.1	0.8	3	6	7	6	2	0.2	25
131	Подмосковная . .	0.05	0.6	4	7	7	6	2	0.1	27
133	Немчиновка . . .	0.1	0.6	4	6	8	7	1	0.1	27
136	Москва, ЗИЛ . .	0.1	0.8	3	7	7	5	2	0.2	25
140	Собакино	0.07	0.5	3	6	7	6	2	0.1	25
141	Ленино-Дачное . .	0.07	0.4	4	5	8	6	2	0.3	26
142	Куровское		0.3	3	6	8	5	2	0.1	24
143	Кривандино . . .		0.4	4	7	7	4	1	0.1	24
145	Черусти		0.3	3	6	8	5	1	0.2	21
146	Можайск		0.6	4	7	8	6	2	0.07	28
151	Наро-Фоминск . .		0.7	4	7	8	7	2	0.1	29
155	Хлевино		0.6	4	6	7	6	1	0.2	25
156	Коломна		0.4	3	6	7	5	1	0.1	22
157	Михнево		0.4	4	8	8	6	1	0.1	28
161	Серпухов		0.3	4	7	7	5	1	0.07	24
163	Кашира		0.6	3	6	8	5	1	0.07	24
	VLADIMIRSKAYA OBLAST									
164	Сима		0.3	3	6	7	5	1		22
165	Юрьев-Польский		0.3	3	6	7	5	1	0.1	22
166	Суздаль . . .		0.4	3	5	8	5	1	0.2	23
168	Александров . .		0.2	4	6	8	6	1	0.1	25
170	Ковров		0.4	4	6	8	5	2	0.2	26
171	Вязники		0.5	4	7	9	6	2	0.3	29
174	Гороховец		0.4	3	7	8	5	1	0.04	24
176	Владимир		0.7	4	7	9	5	1	0.2	27
180	Селивановское оп. поле[2] . . .		0.6	4	8	9	6	2	0.3	30
181	Петушки		0.5	4	6	8	6	1	0.1	26
183	Мошок		0.4	4	7	8	3	1	0.2	24
184	Крюково		0.6	4	7	6	4	2	0.2	24
185	Гусь-Хрустальный		0.4	4	7	10	6	2	0.3	30
186	Муром	0.03	0.3	4	6	8	5	1	0.2	25
187	Черсево		0.5	4	7	8	5	2	0.3	27
188	Меленки[3]		0.4	3	7	8	6	2	0.2	27

[1] In November 0.07 day with storm.
[2] In November 0.03 day with storm.
[3] In November 0.04 day with storm.

Station Nr.	Station	III	IV	V	VI	VII	VIII	IX	X	Year
	SMOLENSKAYA OBLAST									
191	Сычевка		0.5	4	6	7	5	1	0 04	24
192	Козеевщина . . .		0.9	4	7	7	5	2	0 06	26
193	Болшево		0.6	4	7	7	6	2	0.06	27
194	Велиж	0.07	0.7	4	7	8	5	2	0.07	27
195	Гжатск		0.6	5	7	8	6	1	0.08	28
196	Ново-Пречистое		0.7	4	7	8	5	2	0.08	27
198	Демидов		0.3	4	6	8	5	2		25
199	Вязьма		0.5	4	6	8	5	1		24
201	Духовщина . . .		0.8	3	7	6	6	2	0.1	25
202	Надежда		0.6	4	6	6	4	2		23
203	Сафоново		0.4	4	7	8	5	2		26
205	Темкино		0 6	3	6	7	5	1		23
206	Шокино	0.06	0.9	4	8	8	6	2	0.2	29
207	Рудня	0.04	0.8	4	5	7	5	2		24
210	Дебря		1	5	6	6	5	2		25
211	Смоленск		0.9	4	7	8	6	2		28
212	Ельня		0.7	4	7	8	5	1		26
213	Починок		0.7	4	6	7	5	2		25
215	Ускосы		1	4	6	6	5	2	0.09	24
216	Александровка . .		0.9	5	6	6	5	2		25
217	Рославль		1	5	8	9	6	2		31
218	Ершичи		1	4	7	8	6	2		28
	KALUZHSKAYA OBLAST									
219	Малоярославец . .		0 5	4	7	8	6	1	0.1	27
221	Мокрая		0.9	4	6	7	5	2	0.05	25
222	Беликово[1]		0 8	5	6	8	6	2	0 2	28
224	Мосальск		0.9	4	6	8	6	2	0.08	27
225	Калуга		0.7	4	7	8	6	2	0.03	28
226	Спас-Деменск . .		0.9	4	7	8	4	1		25
228	Сухиничи		0.6	4	6	7	5	2	0 04	25
229	Фаянсовая и Киров		1	5	8	8	6	2		30
230	Козельск		0.6	4	7	7	6	2	0.05	27
232	Жиздра		0.9	6	8	9	6	2		32
	RYAZANSKAYA OBLAST									
233	Тума		0 7	4	8	10	6	2	0.4	31
234	Елатьма		0.4	3	6	7	4	1	0.2	22
235	Касимов		0.5	3	6	7	4	2	0.3	23
237	Рязань		0.5	4	7	8	6	2	0.2	28
238	Кадом[2]	0.05	0 6	3	6	7	5	2	0.2	24
239	Сасово	0.03	0 6	4	7	9	6	2	0 07	29
240	Шилово		0 9	3	7	8	6	2	0 06	27
241	Старожилово . .		0.8	4	7	9	5	2	0.2	28
242	Михайлов . . .		0.6	4	8	9	6	2	0.2	30
243	Шацк	0.04	0.9	4	7	9	6	2	0 2	29
244	Сапожок	0.05	1	4	6	9	5	2	0 2	27
245	Скопин		0 7	4	6	8	5	2	0.2	26
246	Павелец		0.6	3	7	7	5	1	0 1	24
247	Ряжск		0.7	3	7	8	6	2	0 1	27
248	Верда	0.04	0 8	4	6	8	5	2	0.07	26
	TULSKAYA OBLAST									
252	Алексин[3]		0 8	5	6	8	7	2		29
253	Венев		0.6	3	6	7	5	2	0.2	24

[1] In November 0.08 day with storm.
[2] In November 0.05 day with storm,
[3] In November 0.06 day with storm.

Station Nr.	Station	III	IV	V	VI	VII	VIII	IX	X	Year
255	Тула		0 7	4	7	8	5	2	0 1	27
256	Узловая		0.6	4	8	9	6	2	0 2	30
257	Орлово		0.9	4	7	8	6	2	0 09	28
259	Белев	0.03	0.7	3	7	8	5	1	0 1	25
261	Плавск и Паточная		0.9	4	5	8	5	2	0 07	25
262	Волово		0.7	4	6	8	5	1		25
263	Чернь и Скуратово		0.7	4	7	8	5	1	0 1	26
265	Ефремов		0 6	4	6	8	6	2	0 2	27

Greatest Number of Days with Storm Table 1a.

Station Nr.	Station	IV	V	VI	VII	VIII	IX	X	Year
	YAROSLAVSKAYA OBLAST								
2	Владычное . . .	2	7	17	19	11	4	1	41
6	Пошехонье-Володарск	2	7	14	17	11	3	1	39
9	Шарна	2	8	12	18	13	3		41
10	Брейтово	3	10	12	17	10	3		38
13	Данилов	3	10	11	15	11	3		33
15, 18	Рыбинск	3	10	11	15	10	3	1	34
16	Коприно	2	7	13	15	13	4		33
17	Исады	3	6	11	13	11	4		36
20	Обухово	2	7	10	16	10	2	1	36
21	Тутаев	3	8	10	17	11	3		32
22	Мышкино	2	8	13	16	10	4	1	39
23	Новое Село . . .	3	8	15	16	14	4	1	39
25	Ярославль . . .	2	9	12	22	12	4	1	43
26	Углич	2	7	14	18	12	4	1	39
29	Вёска	4	6	11	13	10	4		37
31	Ростов[1]	4	12	12	16	14	7		43
33	Переславль-Залесский	2	10	11	17	12	6	1	42
34	Успенский с.-х. техникум . . .	3	8	11	13	14	5		39
	KALININSKAYA OBLAST								
36	Кесьма	2	10	14	16	12	3		40
40	Красный Холм . .	2	8	12	14	13	3		32
42	Бологое	3	12	12	18	11	4		45
45	Максатиха . . .	2	9	13	13	14	4		41
46	Бежецк	4	11	13	12	12	3		40
49	Рождество . . .	4	9	13	16	11	4	1	43
51	Вышний Волочек	3	11	12	13	9	4		41
52	Ряд	2	9	9	12	11	4		35
53	Толмачи	3	10	13	11	14	5		45
54	Высоково	3	9	12	10	10	4		32
55	Кашин	3	8	15	15	12	5	1	40
59	Осташков[2] . . .	2	13	11	16	10	4		45
64	Кувшиново[3] . . .	2	12	13	16	11	5		42
65	Торжок[2]	4	11	16	13	9	4		39
72	Савелово	3	7	16	14	11	5		36
73	Калинин	3	10	15	13	10	5	1	41

[1] In March greatest number of days with storm 1.
[2] In November greatest number of days with storm 1
[3] In March and November greatest number days with storm 1

Station Nr.	Station	IV	V	VI	VII	VIII	IX	X	Year
74	Пьяново	2	8	10	15	10	5		42
80	Луковниково	4	9	12	13	10	5		56
82	Старица	2	9	13	15	11	3		40
83	Тургиново	2	9	16	15	12	6	1	42
84	Торопец[1]	2	14	17	17	11	6	1	41
85	Молодой Туд	3	12	11	13	8	6		42
88	Западная Двина	3	11	11	15	10	4	1	29
89	Ржев	2	11	15	15	11	5		38
94	Белый	3	15	16	17	10	6	1	47
	MOSKOVSKAYA OBLAST								
102	Клин	4	9	11	14	12	5	2	36
103	Дмитров	3	10	13	12	15	4		38
104	Загорск	3	10	12	17	15	6	2	42
109	Шаховская	2	10	13	14	11	6	1	39
110	Волоколамск	3	10	11	13	10	5		36
117	Починки	2	7	10	13	9	4	2	32
118	Ново-Иерусалим[1]	2	7	11	13	12	5	1	34
120	Лосиноостровская[1]	3	8	11	14	14	3	1	36
121	Москва, с.-х. академия[1]	3	7	12	12	13	5	1	34
129	Павловский Посад	2	10	14	13	11	4	1	37
131	Подмосковная[1]	3	9	12	12	14	5	1	38
133	Немчиновка[2]	4	7	13	13	14	4	2	44
140	Собакино[3]	3	9	13	12	18	4	2	36
142	Куровское	2	10	12	16	10	4	1	35
145	Черусти	2	8	13	15	10	4	1	40
146	Можайск	2	10	12	13	11	5	1	39
151	Наро-Фоминск	3	9	13	12	15	5	2	42
155	Хлевино	2	8	10	11	11	5	2	35
156	Коломна	2	9	12	11	8	4	1	34
157	Михнево	3	12	17	15	12	5	1	45
161	Серпухов	2	7	11	11	11	5	1	37
163	Кашира	2	9	16	13	10	5	1	38
	VLADIMIRSKAYA OBLAST								
164	Сима	2	7	9	10	14	5		31
166	Суздаль	2	7	11	13	9	6	1	34
168	Александров	1	8	12	15	16	5	1	38
170	Ковров	3	8	12	16	13	6	2	37
171	Вязники	3	11	13	15	17	6	2	43
174	Гороховец	2	9	14	13	15	5	1	41
176	Владимир	3	10	14	15	14	4	2	37
180	Селивановское оп. поле[4]	3	10	14	16	11	8	2	42
181	Петушки	3	10	13	15	12	5	1	43
183	Мошок	2	8	16	17	8	4	1	34
184	Крюково	2	6	10	11	8	6	1	31
185	Гусь Хрустальный	2	10	15	18	9	6	2	42
186	Муром[1]	2	8	13	13	11	6	2	41
187	Черсево	2	9	11	12	9	5	2	38
188	Меленки[1]	2	11	15	11	10	5	1	37

[1] In March greatest number of days with storm 1.
[2] In March greatest number of days with storm 3
[3] In March greatest number of days with storm 2
[4] In November greatest number of days with storm 1.

Station Nr.	Station	IV	V	VI	VII	VIII	IX	X	Year
	SMOLENSKAYA OBLAST								
191	Сычевка	2	8	13	14	9	5	1	34
192	Колесвщина	4	10	15	12	12	6	1	45
193	Болшево	2	10	13	13	11	4	1	44
194	Велиж [1]	3	16	14	14	10	6	1	43
195	Гжатск	2	10	15	15	12	7	2	44
196	Ново-Пречистое	3	11	18	12	11	6	1	42
198	Демидов	2	15	14	13	10	5		45
199	Вязьма	5	8	11	13	10	5		32
203	Сафоново	3	10	14	15	10	6		38
205	Темкино	3	8	9	13	8	5		33
207	Рудня [1]	3	15	13	12	10	4		43
211	Смоленск	3	11	12	14	11	6		42
212	Ельня	3	11	15	16	13	4		42
213	Починок	3	11	13	14	10	5		40
215	Ускосы	3	10	13	11	9	5	1	39
217	Рославль	4	12	17	14	11	5		42
218	Ершичи	4	10	17	16	14	5		40
	KALUZHSKAYA OBLAST								
219	Малоярославец	4	12	15	12	10	3	1	34
224	Мосальск [1]	3	10	12	13	9	6	2	40
225	Калуга	3	9	13	13	12	5	1	43
226	Спас-Деменск	4	9	12	14	8	4		32
228	Сухиничи	5	8	10	13	7	7	1	32
229	Фаянсовая и Киров	4	11	15	15	10	4		42
230	Козельск	3	8	12	14	12	5	1	41
232	Жиздра	5	14	15	14	10	6		47
	RYAZANSKAYA OBLAST								
233	Тума	3	9	14	20	13	5	2	45
234	Елатьма	2	7	12	10	10	4	2	33
237	Рязань	4	8	11	14	14	4	1	43
238	Кадом [2]	2	8	12	14	9	5	1	32
239	Сасово [1]	2	10	12	16	12	5	1	39
241	Старожилово	3	9	12	16	14	5	1	38
242	Михайлов	2	11	16	16	12	5	1	52
243	Шацк [1]	4	10	13	17	9	6	2	44
245	Скопин	4	8	11	16	8	5	2	36
246	Павелец	3	8	12	15	8	5	1	33
247	Ряжск	3	9	12	19	11	6	1	53
248	Верда [1]	3	7	11	14	11	5	1	41
	TULSKAYA OBLAST								
253	Венев	4	8	14	13	10	4	1	39
255	Тула	4	12	14	14	13	4	1	45
256	Узловая	4	9	13	16	11	5	2	41
257	Орлово	5	8	12	13	12	4	1	36
259	Белев [1]	5	11	12	13	10	6	3	37
262	Волово	3	10	13	12	11	4	2	35
263	Чернь и Скуратово	3	10	12	13	12	4	1	45
265	Ефремов	3	8	12	13	11	7	1	36

[1] In March greatest number of days with storm 1.

[2] In March and November greatest number of days with storm 1.

Table 2. Mean duration of storms (hours)

Station No.	Station	II	III	IV	V	VI	VII	VIII	IX	X	Год	Duration of storm on day with storm year [sic]
						YaROSLAVSKAYa OBLAST						
6	Пошехонье-Володарск			05	40	103	165	93	09		41.5	1.7
31	Ростов			10	83	188	239	170	33		72.3	25
						KALININSKAYa OBLAST						
42	Бологое			11	77	164	198	99	23		57.2	21
64	Кувшиново			09	96	159	21.5	104	1.8		60 1	2.3
73	Калинин			13	63	148	142	118	24		50 8	1.8
88	Западная Двина			06	69	160	140	73	1.7		46.5	2.4
						MOSKOVSKAYa OBLAST						
120	Лосиноостровская			0.3	32	64	91	62	10	003	26.2	1.1
124	Москва, ВДНХ			04	43	85	9.6	77	19	01	32.5	1.2
146	Можайск			09	94	170	195	157	33	01	65 9	23
157	Михнево			04	94	170	167	134	2.2	03	59.4	20
						VLADIMIRSKAYa OBLAST						
176	Владимир			03	50	11.1	152	81	1.8		41 7	1.6
186	Муром	002	001	04	51	11 1	15.5	76	1.5	01	41.3	16
						SMOLENSKAYa OBLAST						
205	Темкино			07	62	82	11.1	63	2.0		34 5	16
211	Смоленск	002		12	7.6	154	166	115	2.3		54.6	1.9
						KALUZhSKAYa OBLAST						
225	Калуга	004		07	67	148	188	126	23	002	560	2.0
226	Спас Деменск			12	98	164	166	108	26		57.4	2.4
						RYaZANSKAYa OBLAST						
238	Сасово	005	00	10	68	135	213	104	25	007	556	19
246	Павелец			07	50	103	136	82	22	002	400	18
						TUL'SKAYa OBLAST						
255	Тула			04	94	219	234	159	35		745	2.4
262	Белево			11	68	146	170	127	27		549	23

Table 2a. Duration of storms at various times of day (hours).

Station No.	Station	Hours	II	III	IV	V	VI	VII	VIII	IX	X	Year
						YaROSLAVSKAYa OBLAST						
6	Пошехонье-Володарск	18–24			02	10	29	41	34	02		118
		24–6			002	05	08	18	09	01		4.1
		6–12			02	05	10	21	10	008		49
		12–18			009	20	56	85	40	05		20.7
31	Ростов	18–24			02	28	61	87	56	11		245
		24–6			02	09	22	17	28	03		81
		6–12			004	02	11	21	14	05		53
		12–18			06	44	94	114	72	14		344
						KALININSKAYa OBLAST						
42	Бологое	18–24			05	24	44	70	32	07		182
		24–6			01	06	18	18	12	05		60
		6–12			004	02	16	13	08	03		42
		12–18			05	45	86	97	47	08		288
64	Кувшиново	18–24			03	35	45	65	35	08		191
		24–6			005	08	18	24	16	02		68
		6–12			006	04	12	15	08	01		41
		12–18			05	42	84	111	45	07		301

Station No.	Station	Hours	II	III	IV	V	VI	VII	VIII	IX	X	Year
73	Калинин	18–24			0.4	2.3	5.3	6.1	4.0	0.8		18.9
		24–6			0.1	0.9	2.1	1.6	2.2	0.4		7.3
		6–12			0.06	0.3	1.2	0.6	1.0	0.1		3.3
		12–18			0.7	2.8	6.2	5.9	4.6	1.1		21.3
88	Западная Двина	18–24			0.1	2.7	4.6	4.7	2.4	0.9		15.4
		24–6			0.004	0.7	2.2	1.6	1.5	0.5		6.5
		6–12				0.2	1.6	0.9	0.5	0.01		3.2
		12–18			0.5	3.3	7.6	6.8	2.9	0.3		21.4
				MOSKOVSKAYa OBLAST								
120	Лосиноостровская	18–24			0.03	1.1	2.0	3.2	1.6	0.3	0.01	8.2
		24–6			0.03	0.2	0.4	0.9	1.2	0.3	0.02	3.1
		6–12				0.09	0.4	0.7	0.3	0.05		1.6
		12–18			0.2	1.8	3.6	4.3	3.1	0.3		13.3
124	Москва, ВДНХ . .	18–24			0.1	1.7	3.2	3.2	1.9	0.7	0.09	10.9
		24–6			0.01	0.6	1.0	1.3	1.9	0.4	0.02	5.2
		6–12			0.01	0.2	0.7	0.7	0.4	0.2		2.2
		12–18			0.3	1.8	3.6	4.4	3.5	0.6		14.2
146	Можайск	18–24			0.1	3.1	5.8	6.9	3.9	1.2	0.04	21.0
		24–6			0.2	1.5	1.8	2.5	2.7	0.4	0.04	9.1
		6–12			0.1	1.0	1.2	1.3	2.1	0.4		6.1
		12–18			0.5	3.8	8.2	8.8	7.0	1.3	0.02	29.6
157	Михнево	18–24			0.2	2.3	5.6	5.4	4.2	0.7	0.2	18.6
		24–6				1.3	1.9	1.4	2.2	0.2	0.08	7.1
		6–12				1.0	1.7	0.7	1.6	0.04		5.0
		12–18			0.2	4.8	7.8	9.2	5.4	1.3		28.7
				VLADIMIRSKAYa OBLAST								
176	Владимир	18–24			0.08	1.4	3.1	5.8	2.8	0.6		13.8
		24–6			0.02	0.5	1.2	1.3	1.4	0.4		4.8
		6–12			0.2	0.4	1.0	0.9	0.6	0.09		3.3
		12–18			0.08	2.7	5.8	7.2	3.3	0.7		19.8
186	Муром	18–24			0.2	1.7	2.7	5.0	2.5	0.5	0.07	12.7
		24–6	0.02		0.07	0.4	1.0	1.4	1.3	0.2		4.4
		6–12		0.01	0.05	0.5	1.1	1.5	0.8	0.1	0.04	4.1
		12–18			0.1	2.5	6.3	7.6	3.0	0.7	0.03	20.2
				SMOLENSKAYa OBLAST								
208	Темкино	18–24			0.1	2.1	2.3	3.7	2.3	0.9		11.4
		24–6			0.06	1.2	0.9	0.9	1.1	0.2		4.4
		6–12			0.04	0.7	0.9	0.7	0.8	0.2		3.3
		12–18			0.5	2.2	4.1	5.8	2.1	0.7		15.4
211	Смоленск	18–24	0.02	0.02	0.3	3.0	4.7	5.6	5.0	1.0		19.6
		24–6			0.4	0.7	2.2	1.8	1.5	0.6		7.2
		6–12			0.01	0.3	1.1	0.9	1.0	0.09		3.4
		12–18			0.5	3.6	7.4	8.3	4.0	0.6		24.4
				KALUZhSKAYa OBLAST								
225	Калуга	18–24			0.08	2.1	4.9	6.0	3.6	0.9		17.7
		24–6			0.03	0.3	2.2	2.6	2.1	0.4		7.6
		6–12			0.02	0.7	1.3	1.3	1.5	0.2	0.02	5.0
		12–18	0.04		0.6	3.6	6.4	8.9	5.4	0.8		25.7
226	Спас-Деменск .	18–24			0.7	4.5	5.7	6.2	4.0	0.8		21.9
		24–6			0.07	1.1	2.3	1.8	1.9	0.5		7.7
		6–12			0.1	0.6	0.7	1.4	1.0	0.3		4.1
		12–18			0.3	3.6	7.7	7.2	3.9	1.0		23.7
				KYaZANSKAYa OBLAST								
239	Сасово . .	18–24	0.01		0.4	2.3	4.0	5.6	3.2	0.7	0.03	16.2
		24–6	0.01		0.1	0.8	1.3	2.1	1.4	0.4	0.03	6.2
		6–12			0.1	0.5	0.8	2.2	0.5	0.3		4.4
		12–18			0.4	3.2	7.4	11.4	5.3	1.1	0.01	28.8
246	Павелец .	18–24			0.4	1.4	3.7	4.7	2.8	0.5	0.0	13.5
		24–6				0.4	1.1	1.5	1.6	0.5	0.0	5.1
		6–12				0.3	0.7	0.6	1.0	0.4	0.0	3.0
		12–18			0.3	2.9	4.8	6.8	2.8	0.8	0.02	18.4
				TUL'SKAYa OBLAST								
255	Тула . .	18–24			0.2	3.0	8.1	8.1	5.2	1.3		25.9
		24–6			0.04	1.1	2.6	3.8	3.6	0.6		11.7
		6–12			0.07	0.5	1.2	1.8	2.0	0.4		6.0
		12–18			0.1	4.8	10.0	9.7	5.1	1.2		30.9
262	Волово .	18–24			0.5	2.2	4.9	6.7	4.7	1.2		20.2
		24–6				1.3	1.9	2.9	2.8	0.5		9.4
		6–12				0.1	0.7	0.9	1.1	0.2		3.0
		12–18			0.6	3.2	7.1	6.5	4.1	0.8		22.3

Table 3.

Recurrence of Various Number of Days with Storm During Year (%)

Number of days	Recurrence
YAROSLAVSKAYA OBLAST	
6. Пошехонье-Володарск	
11-15	3
16-20	30
21-25	37
26-30	17
31-35	10
36-40	3
25. Ярославль	
11-15	4
16-20	17
21-25	42
26-30	27
31-35	3
36-40	
41-45	7
26. Углич	
16-20	27
21-25	33
26-30	27
31-35	10
36-40	3
31. Ростов	
16-20	10
21-25	27
26-30	33
31-35	17
36-40	10
41-45	3
33. Переславль-Залесский	
11-15	3
16-20	27
21-25	23
26-30	23
31-35	17
36-40	4
41-45	3
KALININSKAYA OBLAST	
42. Бологое	
11-15	3
16-20	7
21-25	55
26-30	21
31-35	7
36-40	1
41-45	3
46. Бежецк	
11-15	15
16-20	19
21-25	33
26-30	18
31-35	11
36-40	4
51. Вышний Волочек	
11-15	4
16-20	14
21-25	46
26-30	25
31-35	7
36-40	
41-45	4
55. Кашин	
16-20	24
21-25	34
26-30	21
31-35	17
36-40	4
59. Осташков	
16-20	14
21-25	38
26-30	31
31-35	10
36-40	4
41-45	3
64. Кувшиново	
16-20	32
21-25	25
26-30	18
31-35	14
36-40	7
41-45	4
73. Калинин	
11-15	7
16-20	17
21-25	28
26-30	28
31-35	10
36-40	7
41-45	3
84. Торопец	
11-15	11
16-20	4
21-25	14
26-30	36
31-35	21
36-40	7
41-45	7
88. Западная Двина	
11-15	13
16-20	13
21-25	54
26-30	20
89. Ржев	
11-15	4
16-20	18
21-25	32
26-30	28
31-35	11
36-40	7
MOSKOVSKAYA OBLAST	
102. Клин	
6-10	7
11-15	4
16-20	10
21-25	27
26-30	21
31-35	21
36-40	7
110. Волоколамск	
16-20	21
21-25	25
26-30	29
31-35	21
36-40	4
121. Москва, с.-х. академия	
6-10	4
11-15	12
16-20	15
21-25	31
26-30	23
31-35	11
36-40	4
145. Черусти	
11-15	10
16-20	14
21-25	35
26-30	31
31-35	
36-40	10
146. Можайск	
16-20	7
21-25	28
26-30	31
31-35	24
36-40	10
157. Михнево	
16-20	4
21-25	32
26-30	32
31-35	18
35-40	4
41-45	10

Number of days	Recurrence
163. Кашира	
16–20	39
21–25	28
26–30	18
31–35	11
36–40	4
VLADIMIRSKAYA OBLAST	
168. Александров	
16–20	24
21–25	31
26–30	14
31–35	28
36–40	3
171. Вязники	
11–15	3
16–20	10
21–25	23
26–30	30
31–35	14
36–40	17
41–45	3
176. Владимир	
11–15	7
16–20	14
21–25	14
26–30	41
31–35	17
36–40	7
186. Муром	
11–15	3
16–20	27
21–25	27
26–30	24
31–35	13
36–40	3
41–45	3
SMOLENSKAYA OBLAST	
191. Сычевка	
16–20	27
21–25	35
26–30	18
31–35	12
194. Велиж	
16–20	8
21–25	34
26–30	38
31–35	8
36–40	4
41–45	4
46–50	4
199. Вязьма	
16–20	28
21–25	22
26–30	33
31–35	17
205. Темкино	
11–15	7
16–20	7
21–25	53
26–30	26
31–35	7
211. Смоленск	
16–20	11
21–25	33
26–30	26
31–35	15
36–40	11
41–45	4
217. Рославль	
16–20	4
21–25	18
26–30	26
31–35	33
36–40	15
41–45	4
KALUZHSKAYA OBLAST	
219. Малоярославец	
16–20	21
21–25	34
26–30	21
31–35	24
225. Калуга	
11–15	3
16–20	7
21–25	28
26–30	38
31–35	14
36–40	3
41–45	7
226. Спас-Деменск	
11–15	5
16–20	14

Number of days	Recurrence
21–25	36
26–30	36
31–35	9

232. Жиздра

Number of days	Recurrence
16–20	4
21–25	17
26–30	17
31–35	17
36–40	25
41–45	12
46–50	8

RYAZANSKAYA OBLAST

234. Елатьма

Number of days	Recurrence
6–10	3
11–15	3
16–20	34
21–25	37
26–30	20
31–35	3

237. Рязань

Number of days	Recurrence
11–15	7
16–20	10
21–25	24
26–30	35
31–35	17
36–40	
41–45	7

239. Сасово

Number of days	Recurrence
6–10	3
11–15	
16–20	7
21–25	17
26–30	33
31–35	30
36–40	10

243. Шацк

Number of days	Recurrence
6–10	4
11–15	7
16–20	11
21–25	7
26–30	21
31–35	39
36–40	4
41–45	7

246. Павелец

Number of days	Recurrence
16–20	32
21–25	45
26–30	18
31–35	5

247. Ряжск

Number of days	Recurrence
11–15	7
16–20	30
21–25	17
26–30	20
31–35	13
36–40	7
41–45	3
46–50	
51–55	3

TULSKAYA OBLAST

255. Тула

Number of days	Recurrence
11–15	21
16–20	4
21–25	17
26–30	28
31–35	10
36–40	10
41–45	10

259. Белев

Number of days	Recurrence
11–15	4
16–20	29
21–25	28
26–30	18
31–35	14
36–40	7

262. Волово

Number of days	Recurrence
16–20	8
21–25	44
26–30	32
31–35	16

265. Ефремов

Number of days	Recurrence
11–15	4
16–20	10
21–25	31
26–30	34
31–35	17
36–40	4

SECTION 5

HAIL

Table 1. Mean number of days with hail.

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
	YaROSLAVSKAYa OBLAST								
2	Владычное . . .	0.03	0.4	0.7	0.3	0.1	0.2	0.03	1.8
3	Гаютино		0.3	0.6	0.1	0.1	0.1		1.2
4	Кукобой	0.03	0.2	0.5	0.3	0.1	0.03		1.2
6	Пошехонье-Володарск . . .	0.02	0.4	0 6	0.2	0.2	0.2	0.1	1.7
7	Пустынь и Ильинское . .		0.4	0.6	0.4	0.2	0.1	0.04	1.7
9	Шарна	0.1	0.8	0.4	0.3	0.1	0.05		1.8
10	Брейтово	0.1	0 8	0.8	0.2	0.1	0.1		2.1
11	Милюшино . . .	0.1	0.3	0.6	0.2	0.3	0.3	0.1	1.9
12	Мыс Рожновский	0.1	0.4	0.6		0.1	0.5	0.1	1.8
13	Данилов	0.1	0.4	0.5	0.3	0.1	0.2	0.02	1.6
15, 18	Рыбинск	0.1	0.4	0.6	0.3	0.2	0.4	0 02	2.0
17	Пеады		0.4	0.6	0.3	0.2	0.2		1.7
19	Глебово	0.05	0 5	0.5	0.3	0.1	0.1		1.6
20	Обухово	0.05	0.4	0.4	0.2	0.05	0.1	0.02	1.2
21	Тутаев	0.1	0.4	0.3	0.2	0.2	0.1	0.03	1 3
22	Мышкино . . .	0.1	0.5	0.6	0.3	0.2	0.2	0 03	1.9
24	Некрасовское . .	0.04	0.4	0.4	0.1	0.1	0.1	0.04	1.2
25	Ярославль . . .		0.4	0 5	0.3	0.05	0.1	0.05	1.4
26	Углич	0.05	0.3	0.8	0.2	0.2	0.2	0.05	1.8
28	Сименицы	0.05	0.4	0.6	0.2	0.1	0 05	0.05	1.4
30	Высоково . . .	0.1	0.1	0.5	0.3	0.2	0.2		1.4
31	Ростов	0.02	0.4	0.6	0.2	0.2	0.2	0.1	1.7
32	Нагорье	0.1	0.3	0.8	0.5	0.5	0.2		2.4
33	Переславль-Залесский	0.1	0.6	0.5	0.1	0.1	0.1	0.1	1.6
34	Успенский с.-х. техникум . . .	0.1	0.5	0.6	0.2	0.2	0.1	0.03	1.7
	KALININSKAYa OBLAST								
35	Весьегонск . . .	0.1	0.5	0.5	0.3	0.1	0.1		1 6
36	Кесьма	0.04	0.4	0.3	0.3	0.1	0.1	0.04	1.3
37	Березовский Рядок		0.5	0.4	0.1	0.1	0.1	0.05	1.2
39	Котлован	0.1	0 5	0.4	0.3	0.2	0.1	0.02	1.6
40	Красный Холм .	0.03	0.4	0.5	0.2	0.1	0.05	0.1	1.4
41	Спас-Забережье	0.05	0.5	0.3	0.2	0.1	0.3	0.1	1.6
42	Бологое	0.1	0.6	0.4	0.2	0.1	0.1		1 5
43	Залучка	0.2	0 5	0.4	0.1	0.2	0.1	0.05	1.6
44	Удомля	0.05	0.8	0.6	0.4	0.2	0.05		2.1
45	Максатиха . . .	0.1	0.6	0.7	0.2	0.05	0.1	0.02	1.8
46	Бежецк	0.04	0 3	0.6	0.2	0.1	0.1	0.1	1.4
47	Шлинский гидроузел	0.1	1.0	0.3	0.3	0.1	0.3	0.1	2.2
51	Вышний Волочек	0.2	0.7	0.5	0.2	0.1	0.2	0.04	1.9
52	Ряд	0.1	0.6	0.3	0.4	0.05	0.1	0.05	1.6
53	Голмачи	0.05	0.3	0.6	0.3	0.1	0.05		1.4
54	Высоково	0.05	0.4	0.6	0.1	0.1	0.1		1.4
55	Кашин	0.1	0.6	0.5	0.3	0.2	0.1	0.03	1.8
59	Осташков . . .	0.1	0 6	0.8	0.3	0.1	0.05		2.0
60	Горицы	0 1	0.5	0.5	0.2	0.1	0.1		1.5
61	Лихославль . . .	0.1	0.9	0.5	0.4	0.2	0.3	0 1	2.5
63	Заречье	0.1	0.4	0.1	0.2	0.3	0.1		1.2
64	Кувшиново . . .	0.3	0.6	0.7	0.3	0.1	0.2	0.1	2.3
65	Торжок	0.2	0 7	0 8	0.7	0 2	0.1	0.1	2 8
66	Вселуки	0.1	0 1	0.8	0.3	0.2	0.2	0.05	1 8
67	Оршинская дача	0.1	0.7	0.4	0.2	0.1	0.1		1.6
69	Изведово	0.3	1.0	0.6	0.2	0.1	0.1	0.1	2.4

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
71	Верхневолжский бейшлот	0.2	0.5	0.9	0.3	0.2	0.1	0.03	2.2
72	Савелово	0.1	0.8	1.0	0.2	0.2	0.1	0.03	2.4
73	Калинин	0.2	0.4	0.6	0.3	0.2	0.1	0.04	1.9
74	Пьянково	0.1	0.7	0.6	0.2	0.1	0.1		1.8
75	Бдынь	0.3	0.8	0.4	0.3	0.1		0.1	2.0
76	Давыдово	0.1	0.6	0.3	0.4	0.2	0.2		1.8
77	Видогощи		0.6	0.6	0.1	0.3	0.1		1.7
81	Емельяново	0.1	0.3	0.6	0.5	0.3	0.1	0.05	2.0
82	Старица	0.2	0.4	0.5	0.2	0.2	0.1	0.1	1.7
83	Тургиново	0.1	0.7	0.5	0.3	0.1	0.2	0.1	2.0
84	Торопец	0.2	0.5	0.6	0.4	0.1	0.2	0.1	2.1
85	Молодой Тул	0.05	0.5	0.4	0.1	0.04	0.1		1.2
86	Сергино	0.1	0.5	0.3	0.5	0.1	0.2	0.05	1.8
88	Западная Двина	0.3	0.7	0.4	0.3	0.1	0.2	0.1	2.1
89	Ржев	0.2	0.5	0.5	0.2	0.2	0.2	0.05	1.8
91	Мостовня		0.4	0.5	0.4	0.2	0.05		1.6
94	Белый	0.1	1.0	0.4	0.2	0.3	0.2	0.1	2.3
	MOSKOVSKAYa OBLAST								
97	Зятьково и Стариково	0.2	0.4	0.7	0.2	0.2	0.2		1.8
98	Нушполы	0.1	0.3	0.5	0.3	0.1	0.2		1.5
99	Подмонастырская слобода	0.04	0.4	0.7	0.4	0.2	0.1		1.8
100	Борщево	0.1	0.6	0.9	0.4	0.2	0.2	0.1	2.5
101	Яхрома нижняя ст.	0.3	1.1	0.7	0.2	0.2	0.2		2.7
102	Клин	0.1	0.9	0.4	0.2	0.2	0.2	0.1	2.1
103	Дмитров	0.2	1.0	0.6	0.3	0.2	0.2	0.1	2.6
104	Загорск	0.1	0.6	0.6	0.4	0.3	0.2		2.2
105	Пестриково	0.1	0.4	1.2	0.3	0.3	0.3		2.6
106	Бренево	0.2	0.3	0.1	0.2	0.2	0.1	0.1	1.2
107	Стрелецкая слобода	0.1	0.4	0.6	0.3	0.05	0.4		1.8
108	Ярополец	0.1	0.2	0.6	0.4	0.1	0.1	0.1	1.6
109	Шаховская	0.1	0.4	0.6	0.3	0.2	0.2	0.02	1.8
110	Волоколамск	0.1	0.3	0.4	0.3	0.2	0.1		1.4
111	Рябинки	0.1	0.4	0.6	0.1	0.1	0.1		1.4
112	Тимашево		0.2	0.4	0.3	0.1	0.05		1.0
114	Крюково		0.4	0.6	0.3	0.2	0.3	0.05	1.8
115	Мысово	0.1	0.6	0.7	0.2	0.4	0.1		2.1
116	Черкизово	0.2	0.6	1.0	0.2	0.2	0.2	0.05	2.4
117	Починки	0.1	0.3	0.5	0.2	0.3	0.1	0.04	1.5
118	Ново-Иерусалим	0.03	0.7	0.6	0.2	0.2	0.2	0.1	2.0
119	Ватутино	0.1	0.9	0.6	0.2	0.3	0.3		2.4
120	Лосиноостровская	0.1	0.5	0.7	0.4	0.2	0.3		2.2
121	Москва, с.-х. академия	0.1	0.5	0.6	0.5	0.3	0.2	0.01	2.2
123	Тушино	0.04	0.4	0.4	0.2	0.1	0.1	0.04	1.3
124	Москва, ВДНХ	0.2	0.5	0.7	0.4	0.3	0.2		2.3
126	Москва, Сокольники	0.3	0.4	0.4	0.2	0.2	0.2		1.7
127	Карповка	0.1	0.6	0.7	0.3	0.3	0.05		2.0
128	Москва, межевой институт		0.6	0.5	0.3	0.2	0.03		1.6
129	Павловский Посад		0.5	0.2	0.4	0.2	0.1	0.1	1.5
130	Москва, ГМО		0.6	0.5	0.3	0.3	0.2	0.05	2.0
131	Подмосковная	0.2	0.9	0.5	0.2	0.4	0.3	0.1	2.6
132	Сытьково и Руза	0.2	0.8	0.7	0.1	0.1	0.4		2.3
133	Немчиновка	0.1	0.6	0.5	0.5	0.4	0.4	0.3	2.8
135	Богаево	0.1	0.1	0.8	0.4	0.4	0.1		1.9
137	Полушкино	0.1	0.4	0.4	0.2	0.1		0.1	1.3

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
139	Гжель	0.1	0.6	0.5	0.1	0.2	0.1	0.1	1.7
140	Собакино . . .	0.1	0.7	0.7	0.3	0.3	0.1	0.02	2.2
141	Ленино-Дачное .		0.6	0.6	0.3	0.5	0.4	0.2	2.6
142	Куровское . . .	0.1	0.3	0.3	0.4	0.3	0.1		1.5
143	Кривандино . . .	0.05	0.4	0.2	0.3	0.1		0.05	1.2
144	Красновидово . .	0.2	0.4	0.8	0.5	0.1	0.05		2.1
145	Черусти	0.2	0.3	0.6	0.2	0.2	0.2	0.02	1.7
146	Можайск	0.2	0.7	0.6	0.3	0.1	0.2		2.1
147	Захарьино . . .	0.05	0.4	1.1	0.3	0.4	0.1		2.3
149	Щаповский с.-х. техникум . . .	0.2	0.3	0.8	0.2	0.2	0.1	0.1	1.9
150	Тропарево . . .	0.1	0.3	0.4	0.3	0.05	0.05	0.1	1.3
151	Наро-Фомиск	0.1	0.6	0.5	0.3	0.2	0.1	0.1	1.9
152	Шебанцево . . .	0.1	0.5	1.2	0.2	0.3	0.2	0.1	2.6
153	Спас-Косицы . .	0.1	0.5	1.1	0.4	0.4	0.1	0.1	2.7
155	Хлевино	0.03	0.4	0.4	0.3	0.2	0.1	0.03	1.5
156	Коломна	0.2	0.4	0.5	0.4	0.2	0.1	0.04	1.8
157	Михнево	0.05	0.7	0.8	0.3	0.2	0.2	0.1	2.4
158	Малино		0.3	0.5	0.2	0.1	0.1		1.2
159	Вихрово и Новоселки	0.05	0.3	0.9	0.5	0.1	0.1	0.1	2.0
160	Куртино	0.1	0.4	0.8	0.4	0.1	0.1	0.05	2.0
161	Серпухов		0.4	0.3	0.4	0.2	0.1		1.4
162	Озеры	0.1	0.3	0.5	0.4	0.2	0.1		1.6
163	Кашира	0.1	0.5	0.5	0.2	0.3	0.2		1.8
	VLADIMIRSKAYa OBLAST								
164	Сима		0.3	0.3	0.4	0.2	0.2		1.4
165	Юрьев-Польский	0.1	0.3	0.4	0.2	0.2	0.1	0.1	1.4
166	Суздаль	0.05	0.7	0.4	0.4	0,3	0.1	0.05	2.0
168	Александров . .	0.1	0.6	0.5	0.3	0.1	0.2		1.8
169	Покров		0.3	0.3	0.2	0.1	0.1		1.0
170	Ковров	0.1	0.4	0.4	0.2	0.1	0.1	0.05	1.4
171	Вязники	0.1	0.6	0.5	0.2	0.1	0.1	0.1	1.7
172	Троицы		0.7	0.6	0.2	0.1	0.1		1.7
173	Киржач	0.1	0.9	0.7	0.8	0.2	0.1		2.8
174	Гороховец . . .	0.1	0.4	0.5	0.1	0.1	0.1		1.3
175	Владимирское оп. поле . . .	0.1	0.6	0.7	0.1	0.1	0.2	0.03	1.8
176	Владимир	0.1	0.5	0.5	0.2	0.2	0.2	0.03	1.7
177	Вяткино и Бараки	0.1	0.4	0.5	0.2	0.1	0.1	0.03	1.4
178	Милиново		0.3	0.5	0.2	0.5	0.1		1.6
179	Фомники	0.04	0.3	0.4	0.4	0.2	0.04		1.4
180	Селивановское оп. поле . . .	0.1	0.6	0.6	0.5	0.3	0.1	0.1	2.3
181	Петушки	0.03	0.4	0.4	0.2	0.2	0.3	0.03	1.6
182	Березники . . .	0.1	0.3	0.5	0.3	0.2			1.4
183	Мошок	0.03	0.3	0.4	0.2	0.1	0.1	0.1	1.2
184	Крюково	0.02	0.2	0.3	0.3	0.2	0.1		1.1
185	Гусь-Хрустальный	0.03	0.4	0.7	0.3	0.1	0.1	0.03	1.7
186	Муром	0.05	0.4	0.5	0.3	0.2	0.1	0.03	1.6
187	Черсево		0.3	0.4	0.4	0.2	0.1		1.4
188	Меленки	0.05	0.2	0.4	0.2	0.1	0.05		1.0
189	Ляхи	0.1	0.7	0.6	0.6	0.1	0.1	0.1	2.3
	SMOLENSKAYa OBLAST								
191	Сычевка	0.1	0.3	0.6	0.6	0.2	0.1		1.9
192	Колесвшина . . .	0.2	0.4	0.4	0.3	0.05	0.2	0.05	1.6
193	Болшево	0.1	0.6	0.4	0.4	0.4	0.1		2.0
194	Велиж	0.4	1.0	0.5	0.1	0.2	0.2	0.1	2.6
195	Гжатск	0.2	0.6	0.3	0.2	0.1	0.1		1.5
196	Ново-Пречистое	0.1	0.3	0.3	0.3	0.1	0.05		1.2
197	Устье	0.05	0.3	0.3	0.2	0.3			1.2

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
198	Демидов		0.4	0 4	0.2		0 2	0.04	1.2
199	Вязьма	0.1	0.5	0.5	0.3	0.1	0.1	0 04	1.6
200	Батищево	0.2	0.8	0.7	0 3	0.3	0.05	0 03	2 4
203	Сафоново	0.1	0.5	0.2	0 2	0 1	0 1		1 2
206	Шокино	0.1	0.8	0 3	0 6	0 3	0 6	0 2	3 0
207	Рудня	0.2	0 9	0 1	0 4	0.1			1 7
208	Соловьево . . .	0.1	0 2	0 3	0 2	0.1	0 2		1 1
209	Дорогобуж . . .		0.7	0.1	0 2		0.5		1 5
210	Дебря	0.1	0.7	0.2	0 2	0 2		0 1	1 5
211	Смоленск	0.2	0.9	0.6	0.4	0.2	0.2	0 03	2.5
212	Ельня	0.04	0 4	0.5	0.2	0.04	0.1		1.3
213	Починок	0.1	0 3	0.3	0.3	0.2	0.2		1 4
217	Рославль	0.2	0.8	0.6	0.3	0.2	0 2		2 3
218	Ершичи	0.1	0 6	0.2	0 4	0.2	0.3	0 1	1.9
	KALUZHSKAYa OBLAST								
219	Малоярославец	0.1	0 4	0.5	0.4	0 2	0 1	0 03	1 7
222	Беликово	0.1	0 3	0.3	0 4	0.4			1 5
223	Андреевское . . .	0.2	0.4	0 3	0.2	0.2	0 2		1 5
224	Мосальск	0.2	0 5	0.5	0.3	0.2	0 2	0.04	1 9
225	Калуга	0.1	0 6	0 5	0.3	0.2	0 2	0 1	2 0
226	Спас-Деменск . .	0.04	0.4	0.4	0 2	0 2	0 1	0 1	1 4
228	Сухиничи	0.04	0 6	0.4	0 2	0.1	0.1		1.4
229	Фаянсовая и Киров	0.04	0.5	0 4	0.3	0 1	0.3		1 6
230	Козельск	0 1	0 4	0 5	0 4	0.1	0 2	0 1	1 8
232	Жиздра	0 1	0.7	0 7	0 3	0 1	0 2	0 2	2 3
	RYaZANSKAYa OBLAST								
233	Тума	0.1	0.5	0.5	0.3	0 2	0 2		1 8
234	Елатьма	0.1	0.4	0 5	0 3	0 2	0 2	0.1	1 8
235	Касимов	0.2	0.3	0 6	0.3	0 2	0 3	0 1	2 0
237	Рязань	0.2	0.5	0.4	0.2	0 2	0 1	0 1	1.7
239	Сасово	0.1	0 5	0.5	0 4	0 2	0 1	0.05	1.8
240	Шилово	0.1	0.3	0.5	0.1	0 2	0 2	0 03	1 4
241	Старожилово . .	0.2	0.6	0.5	0 3	0 1	0.1	0 05	1.8
242	Михайлов	0.1	0.5	0 4	0 3	0.2	0.02	0 1	1 6
243	Шацк	0 04	0.5	0.3	0 2	0.1	0 2		1 3
244	Сапожок	0.2	0.5	0.4	0 3	0.1	0 1		1.6
245	Скопин	0.1	0.6	0.5	0.3	0 1	0 1	0 04	1.7
246	Павелец	0 1	0.2	0.4	0.4	0 3		0 03	1 4
247	Ряжск	0.02	0.3	0 3	0.3	0 2	0.1	0 02	1.2
248	Верда	0.1	0.4	0.4	0.4	0 1	0 05	0 03	1 5
249	Мураевня и Гремячка . . .	0.2	0 2	0.3	0.4	0 1	0 1	0 02	1.3
	TUL'SKAYa OBLAST								
250	Егнышевка . . .	0 3	0.4	0.1	0.3	0.1	0 1	0 1	1 4
251	Жуково	0.1	0.7	0.4	0.4	0.1	0 1		1.8
252	Алексин	0 1	0.7	0 4	0 4	0 2	0 1		1 9
253	Венев	0 03	0.6	0.4	0.2	0 2	0 1	0.1	1 6
254	Ханино	0.1	0.7	0.3	0.4	0 1	0 3	0 2	2.1
255	Тула	0.1	0.7	0.6	0 4	0 2	0 1	0 05	2 2
256	Узловая	0.1	0 4	0.4	0.4	0 2	0.03	0 1	1.6
259	Белев	0.1	0.6	0.6	0.2	0.3	0 2		2 0
260	Богородицк, с.-х. техникум	0 1	0.5	0 6	0 4	0.2	0 1		2.0
261	Плавск и Паточная	0 2	0.5	0.3	0 3	0 3	0 04	0 04	1.7
262	Волово	0 2	0.6	0 5	0 2	0.2	0 1		1 8
263	Чернь и Скуратово	0.2	0 5	0 4	0 3	0 2	0 1	0 01	1 7
265	Ефремов	0.1	0 6	0.2	0 2	0 2	0.1		1 4

Table 1a. Greatest number of days with hail.

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
	YaROSLAVSKAYa OBLAST								
2	Владычное	1	2	3	3	1	1	1	6
6	Пошехонье-Володарск	1	3	3	1	2	3	2	7
13	Данилов	1	2	4	2	1	2	1	6
15, 18	Рыбинск	1	2	2	1	1	3	1	7
20	Обухово	1	3	3	1	1	1	1	4
21	Тутаев	1	2	5	1	2	1	1	5
22	Мышкино	2	3	4	3	2	3	1	7
25	Ярославль		2	4	2	1	2	1	4
26	Углич	1	2	3	2	2	1	1	5
30	Высоково	1	2	3	2	2	2		5
31	Ростов	1	2	2	1	2	2	2	6
33	Переславль-Залесский	1	4	3	1	1	1	1	7
34	Успенский с.-х. техникум	1	2	4	2	3	1	1	6
	KALININSKAYa OBLAST								
35	Весьегонск	1	3	2	5	1	1		8
36	Кесьма	1	2	2	1	1	1	1	3
37	Березовский Рядок		3	2	2	1	1	1	6
39	Котлован	1	4	1	2	1	2	1	5
40	Красный Холм	1	2	2	1	2	2	2	3
42	Бологое	2	3	2	2	2	2		4
45	Максатиха	1	4	3	2	1	1	1	7
46	Бежецк	1	2	3	2	1	1	2	4
51	Вышний Волочек	2	4	2	2	2	2	1	7
55	Кашин	1	3	2	2	1	1	1	8
59	Осташков	2	3	7	3	1	1		7
64	Кувшиново	3	3	3	2	1	2	2	6
65	Торжок	1	2	4	3	2	2	1	7
67	Оршинская дача	1	4	2	1	1	1		5
71	Верхневолжский бейшлот	2	2	4	2	1	1	1	6
72	Савелово	1	3	3	2	2	1	1	5
73	Калинин	1	4	3	1	2	2	1	6
82	Старица	2	2	3	2	2	1	2	6
83	Тургиново	2	4	3	2	2	2	2	8
84	Торопец	2	2	3	3	1	3	1	6
88	Западная Двина	2	3	2	2	1	3	3	7
89	Ржев	1	5	4	2	1	1	1	6
94	Белый	2	4	2	2	2	2	1	6
	MOSKOVSKAYa OBLAST								
97	Зятьково и Старикова	1	2	3	1	1	2		5
102	Клин	1	4	1	1	1	1		4
103	Дмитров	2	4	2	1	1	2	1	7
104	Загорск	1	2	2	3	2	2		6
109	Шаховская	1	3	4	2	1	2	1	5
110	Волоколамск	2	2	2	2	2	1		5
117	Починки	1	3	3	1	2	1	1	5
118	Ново-Иерусалим	1	5	4	2	2	2	1	6
120	Лосиноостровская	1	4	2	2	2	2		6
121	Москва, с.-х. академия	1	3	4	2	2	3	1	8

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
123	Тушино	1	2	2	2	2	1	1	5
124	Москва, ВДНХ .	1	4	2	2	2	1		6
126	Москва, Сокольники	2	2	2	1	2	1		4
129	Павловский Посад		3	3	2	4	2	1	7
131	Подмосковная . .	2	2	2	2	2	2	1	6
132	Сытьково и Руза	2	2	3	1	1	4		6
133	Немчиновка . .	1	3	3	2	2	2	1	9
140	Собакино . . .	2	2	4	3	2	2	1	7
142	Куровское . . .	2	2	2	2	2	1		5
143	Кривандино . .	1	3	2	1	1		1	5
145	Черусти	1	2	5	2	2	3	1	6
146	Можайск . . .	1	4	2	2	1	2		7
151	Наро-Фоминск . .	2	2	2	2	1	1	2	4
153	Спас-Косицы . .	1	2	5	2	2	1	1	9
155	Хлевино	1	3	2	1	1	1	1	5
156	Коломна	1	2	4	2	2	1	1	6
157	Михнево	1	4	4	2	2	2	1	8
158	Малино		1	2	1	1	1		4
159	Вихрово и Новоселки	1	2	3	2	1	1	1	5
160	Куртино	1	2	5	2	2	1	1	8
161	Серпухов		3	2	2	1	1		5
163	Кашира	2	3	2	2	2	1		6

VLADIMIRSKAYa OBLAST

164	Сима		2	2	2	2	1		5
165	Юрьев-Польский	2	2	2	1	2	1	1	4
166	Суздаль	1	4	3	3	2	2	1	6
168	Александров . .	3	2	4	2	1	2		6
169	Покров		2	5	1	1	1		6
170	Ковров	1	2	3	1	1	1	1	5
171	Вязники	1	3	3	2	1	1	1	6

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
174	Гороховец . . .	2	3	2	1	2	1		4
175	Владимирское оп. поле	2	3	4	2	1	1	1	5
176	Владимир . . .	1	2	3	2	1	2	1	6
177	Вятьково и Бараки	2	3	2	1	1	1	1	5
179	Фомишки . . .	1	3	2	3	2	1		5
180	Селиановское оп. поле	1	3	3	3	2	1	1	8
181	Петушки	1	2	2	1	3	3	1	7
183	Мошок	1	2	2	3	1	2	1	7
184	Крюково	1	2	3	2	1	1		4
185	Гусь-Хрустальный	1	2	4	1	1	2	1	5
186	Муром	1	3	3	3	3	2	1	6
187	Черсено		1	5	2	3	2		8
188	Меленки	1	2	3	2	2	1		5
	SMOLENSKAYa OBLAST								
194	Велиж	2	5	2	1	1	2	2	9
195	Гжатск	2	2	1	1	1	2		5
196	Ново Пречистое	1	1	2	1	2	1		4
198	Демидов		2	2	1		1	1	3
199	Вязьма	1	2	2	1	1	1	2	6
200	Батищево . . .	2	5	3	2	3	1	1	7
203	Сафоново . . .	1	2	1	1	1	1		4
207	Рудня	2	4	1	4	1			5
208	Соловьево . . .	1	2	2	2	1	1		4
210	Дебря	1	2	1	1	2		1	4
211	Смоленск	2	5	3	3	2	4	1	8
212	Ельня	1	2	2	1	1	1		5
213	Починок	1	2	1	2	2	2		5
217	Рославль	1	3	4	2	4	2		6
218	Ершичи	1	4	1	2	2	2	1	8

Station No.	Station	IV	V	VI	VII	VIII	IX	X	Year
	KALUZhSKAYa OBLAST								
219	Малоярославец .	2	2	5	2	2	1	1	6
222	Беликово	1	2	1	3	3			6
223	Андреевское . . .	1	1	2	2	2	1		4
224	Мосальск . . .	1	2	3	2	1	1		4
225	Калуга	1	3	6	2	2	2	1	9
226	Спас-Деменск . .	1	3	2	2	1	1	1	4
228	Сухиничи . . .	1	2	2	2	1	1		4
229	Фаянсовая и Киров	1	3	1	2	1	2		5
230	Козельск	1	2	2	2	1	1	1	4
232	Жиздра	1	5	3	2	1	3	1	8
	RYaZANSKAYa OBLAST								
233	Тума	1	4	2	2	2	2		6
234	Елатьма	1	3	3	1	1	2	1	5
237	Рязань	2	2	3	2	2	1	1	5
239	Сасово	3	3	2	2	2	2	1	7
240	Шилово	1	2	2	1	1	1	1	4
241	Старожилово . .	2	3	3	2	1	2	1	5
242	Михайлов . . .	2	3	2	2	1	1	1	4
243	Шацк	1	3	2	1	1	2		5
244	Сапожок	1	2	3	3	1	2		7
245	Скопин	2	4	2	3	1	1	1	5
246	Павелец	1	3	2	5	3		1	11
247	Ряжск	1	2	2	3	1	1	1	6
248	Верда	1	3	2	3	1	1	1	5
249	Мураевня и Гремячка	1	1	2	2	1	2	1	3
	TUL'SKAYa OBLAST								
253	Венев	1	3	2	2	1	1	2	6
255	Тула	2	4	3	2	2	2	1	6
256	Узловая	1	2	2	2	2	1	1	4
259	Белев	1	2	5	2	1	1		8
262	Волово	2	4	3	1	2	1		5
263	Чернь и Скуратово	2	2	2	1	2	1	1	5
265	Ефремов	1	3	2	2	3	1		4

Alphabetized station index
Section 1. Cloud cover

Station No.	Station	Altitude (m)	1. Recurrence of clear, semiclear and gray sky condition for total and low cloud cover 2,3. Recurrence of clear, semi-clear & gray sky conditions for total and low cloud cover at various hours of the day	4 Number of clear and gray days for total and low cloud cover	5. Mean monthly & annual total and low cloud cover 6 7 Mean monthly and annual total and low cloud cover at various hours of the day.	8 Recurrence of basic forms of cloud cover 8a Recurrence of basic forms cloud cover at various hours of the day	9 Recurrence of various gradations of low cloud cover with certain gradations of total cloud cover.
			Years of observations				
168	Александров	185	1936–60	1936–60	1936–60	–	–
46	Бежецк	140	1936–40, 42–60	1936–40, 42–60	1936–40, 42–60	–	–
259	Белев	175	1936–41, 43–60	1936–41, 43–60	1936–41, 43–60	–	–
94	Белый	212	1936–40, 44–60	1936–40, 44–60	1936–40, 44–60	–	–
42	Бологое	187	1936–40, 42–60	1936–40, 42–60	1936–40, 42–60	–	–
10	Брейтово	105	1950–65	1950–60	–	–	–
194	Велиж	165	1945–65	1936–40, 45–60	1945–60	1946–60	1946–60
176	Владимир	168	1936–60 *	1936–60	1936–60 *	–	–
262	Волово	276	1936–60	1936–60	1936–60	1936–60	1936–60
110	Волоколамск	187	1936–60	1936–60	1936–60	–	–
51	Вышний Волочек	167	1936–60 *	1936–60	1936–60 *	1936–60 *	1936–60
171	Вязники	122	1936–60	1936–60	1936–60	–	–
199	Вязьма	252	1936–40, 43–60	1936–40, 43–60	–	1936–40, 44–60 *	1936–40, 44–60
195	Гжатск	194	1937–41, 43–60	1937–39, 43–60	1937–39, 43–60	–	–
185	Гусь-Хрустальный	135	–	1938–60	1938–60	–	–
13	Данилов	155	1936–60 *	1936–60	1936–60 *	–	–
198	Демидов	165	1936–41, 44–60	1936–41, 44–60	1937–40, 44–60	–	–
103	Дмитров	183	1941–60	1941–60	1941–60	–	–
234	Елетьма	132	1936–60 *	1936–60	1936–60 *	1936–60	1936–60
212	Ельня	232	1937–41 44–60	1937–41, 44–60	1937–40, 44–60	–	–
265	Ефремов	216	1936–60	1936–60	1936–60	–	–
232	Жиздра	192	1937–41, 45–60 *	1937–41, 45–60	1936–41, 46–60	1936–41, 46–60	1936–41, 46–60
104	Загорск	205	–	1941–60	1941–60	–	–
88	Западная Двина	200	1936–60	1936–60	1936–60	–	–
73	Калинин	136	1936–40, 42–60 *	1936–40, 42–60	–	1936–60 *	1936–60
225	Калуга	202	1936–60	1936–60	1936–60 *	1942–60 *	1942–60
55	Кашин	137	1936–40, 42–60	1936–40, 42–60	1936–40, 42–60	–	–
163	Кашира	219	1936–60	1936–60	1936–60	–	–
36	Кесьма	194	1942–60	1942–60	1942–60	–	–
156	Коломна	112	1936–60	1936–60	1936–60 *	–	–
64	Кувшиново	252	1936–40, 42–60	–	–	–	–
142	Куровское	123	1936–60	1936–60	1936–60	–	–
219	Малоярославец	195	1936–60	1936–60	1936–60	–	–
242	Михайлов	164	1936–60	1936–60	1936–60	–	–
157	Михнево	178	1936–60	1936–60	1936–60	–	–
146	Можайск	184	1936–60	1936–60	1936–60	1936–60	1936–60
224	Мосальск	223	1937–39, 43–60	1937–39, 43–60	1937–39, 43–60	–	–
124	Москва, ВДНХ	149	1948–65	1948–60	–	–	–
121	Москва, с.-х. академия	167	1936–60 *	1936–60	1936–60 *	1936–60 *	1936–60
186	Муром	119	1936–60	1936–60	1936–60	1936–60 *	1936–60
12	Мыс Рожновский	103	1951–65	1951–60	–	–	–
118	Ново-Иерусалим	159	1936–60	1936–60	–	–	–
196	Ново-Пречистое	244	1936–40, 46–60	1937–40 46–60	1937–40, 46–60	–	–
59	Осташков	218	1936–60	1936–60	1936–60	–	–
246	Павелец	209	1936–60	1936–60	1936–60	1936–60	1936–60
33	Переславль-Залесский	174	1938–60	1936–60	1936–60	–	–
117	Починки	137	1939–57	1939–57	1939–57	–	–
213	Починок	206	1936–41 44–60	1936–41, 44–60	–	–	–

[redacted] 237

Station No.	Station	Altitude (m)	1 Recurrence of clear semiclear and gray sky condition for total and low cloud cover 2,3. Recurrence of clear, semi-clear & gray sky conditions for total and low cloud cover at various hours of the day	4. Number of clear and gray days for total and low cloud cover	5 Mean monthly & annual total and low cloud cover. 6,7 Mean montly and annual total and low cloud cover at varous hours of the day.	8 Recurrence of basic forms of cloud cover. 8a Recurrence of basic forms cloud cover at various hours of the day	9 Recurrence of various gradations of low cloud cover with certain gradations of total cloud cover
			Years of observations				
6	Пошехонье-Володарск	109	1936–60	1936–60	1936–60	1936–60	1936–60
89	Ржев	195	1936–40, 43–60	1936–40, 43–60	–	1936–40, 43–60	1936–40, 43–60
217	Рославль	219	1936–40, 44–60*	1936–40, 44–60	1936–40, 44–60*	-	–
31	Ростов	99	1936–60	1936–60	1936–60	–	–
15, 18	Рыбинск	104	1936–60	1936–60	1936–60	1936–60*	1936–60
247	Ряжск	125	1936–60*	1936–60	1936–60*	–	–
237	Рязань	156	1936–60	1936–60	–	1936–60*	1936–60
239	Сасово	114	1936–60	1936–60	1936–60	–	–
203	Сафоново	210	1943–60	1943–60	1943–60	–	–
180	Селивановское оп. поле	129	1940–60	1936–60	1940–60	–	–
211	Смоленск	233	1936–41, 44–60*	1936–41, 44–60	1936–41, 44–60*	1944–60*	1944–60
140	Собакино	187	–	1948–60	–	1936–60	–
226	Спас-Деменск	237	1936–40, 43–60	1936–40, 43–60	1936–40, 43–60	–	–
82	Старица	179	1936–40, 43–60	1936–40, 43–60	1936–40, 43–60	–	–
228	Сухиничи	237	1936–40, 42–60	1936–40, 42–60	–	–	–
191	Сычевка	200	1937–40, 44–60	–	–	–	–
205	Темкино	202	1936–40, 44–60,	1936–40, 44–60	–	–	–
66	Торжок	171	1937–40, 42–60	1937–40, 42–60	1936–40, 42–60	–	–
84	Торопец	187	1936–40, 44–60*	1936–40, 44–60	1936–40, 44–60*	–	–
255	Тула	165	1936–60	1936–60	1936–60*	1936–60*	1936–60
233	Тума	123	1936–60	1936–60	1936–60	–	–
83	Тургиново	130	1936–40, 43–60	1936–40, 43–60	1936–40, 43–60	–	–
21	Тутаев	125	1939–60	1936–60	1936–60	1939–60	1939–60
26	Углич	124	1939–60	1936–60	1936–60	–	–
263	Черень и Скуратово	245	1936–41, 44–60*	1936–41, 44–60	1936–41, 44–60*	–	–
145	Черусти	127	1936–60	1936–60	1936–60	–	–
243	Шацк	121	1941–60	1937–60	–	–	–
240	Шилово	98	1936–60	1936–60	1936–60	–	–
206	Шокино	229	–	1946–60	–	–	–
25	Ярославль	98	1936–60	1936–60	1936–60	–	–

Note: Asterick (*) means that for the corresponding station the column of Table 1 also contains data of Tables 2 and 3 for the indicated period, the column of Table 5 - data of Tables 6 and 7, and in the column of Table 8 - data in Table 8a.

Section 2. Fogs

Station No	Station	Altitude (m)	1 Number of days with days 1a Greatest number of days with fog	2 Recurrence of various number of days with fog, by months 2a Recurrence of various number of days with fog for the year	3. Mean duration of fogs 3a Maximum duration of fogs 3b Duration of fogs at various times of day	4. Recurrence of various duration of fogs by months
			Years of observations			
168	Александров	185	1936–40, 43–60, 62–63, 65 *	–	1937–40, 42, 45–60	–
216	Александровка	191	1947–56, 58–62, 64–65	–	–	–
252	Алексин	192	1941, 50–65	–	–	–
264	Архангельское	220	1955–56, 58–64	–	–	–
75	Вязьма	228	1944–65	–	–	–
46	Бежецк	140	1936–40, 42–65 *	1936–40, 42–65	–	–
259	Белев	175	1936–41, 43–64 *	1936–41, 43–64	–	–
222	Беликово	200	1947–65	–	–	–
42	Бологое	187	1936–40, 42–65 *	1936–40, 42–65	–	–
193	Большево	220	1948, 50–65	–	–	–
93	Большое Кобяково	250	1946–54, 57–65	–	–	–
10	Брейтово	105	1950–65	–	–	–
138	Быково	134	1937–40, 42–55	–	–	–
27	Вдули	135	1946, 53–64	–	–	–
194	Велиж	165	1936–40, 43–64 *	1936–40, 43–64	–	–
253	Венев	175	1939–41, 44–55	–	–	–
248	Верда	124	1936–42, 58–65	–	–	–
29	Вёска	126	1944–65	–	–	–
35	Весьегонск	106	1936–39, 42, 49–65 *	–	–	–
176	Владимир	168	1936–47, 53–65 *	1936–47, 53–65	1936, 38–47, 53–60	1936, 38–47, 53–60
2	Владычное	140	1940–65 *	1940–65	–	–
262	Волово	276	1936–64 *	1936–64	1936–38, 41–60	1936–38 41–60
110	Волоколамск	187	1936–64 *	1936–64	1936–60	–
66	Вселуки	210	1944–64	–	–	–
30	Высоково	180	1936–38, 40, 42, 44–45, 47–53, 55–65	–	–	–
51	Вышний Волочек	167	1936–65 *	1936–65	1936–60	1936–60
171	Вязинки	122	1936–64 *	1936–64	–	–
199	Вязьма	252	1936–40, 43–64 *	1936–40, 43–64	1936–40, 46–60	–
3	Гаютино	122	1950–65	–	–	–
195	Гжатск	194	1937–39, 43–64 *	1937–39, 43–64	–	–
60	Горицы	150	1944–65	–	–	–
185	Гусь-Хрустальный	135	1937–65 *	1937–65	1938–60	–
13	Данилов	155	1936–65 *	1936–65	1936–60	–
198	Демидов	165	1938–40, 44–65 *	–	–	–
103	Дмитров	183	1941–64 *	1941–64	–	–

98	Дубна	120	1953–65	–	–	–
201	Дулебишки . . .	213	1939–40, 45, 47–50, 52–65	–	–	–
234	Елатьма . . .	132	1936–64 *	1936–64	1936–60	1936–60
212	Ельня	232	1936–37, 39–40, 44–65 *	1936–37, 39–40, 44–65	–	–
218	Ерзовка	200	1944–48, 50–65	–	–	–
265	Ефремов	216	1966–64	–	–	–
232	Жиздра	192	1936–41, 45–64 *	1936–41, 45–64	–	–
104	Загорск	205	1941–58, 60–65	–	–	–
43	Залучье	150	1949, 51–56, 59–65	–	–	–
86	Западная Двина .	200	1936–38, 40–46, 48–53, 55–65 *	1936–38, 40–46, 48–53, 55–65	–	–
58	Ивановское . . .	212	1944, 45, 48–65	–	–	–
14	Игнатово	140	1950–65	–	–	–
69	Изведово	206	1944–65	–	–	–
238	Кадом	98	1947–65	–	–	–
73	Калинин	136	1936–40, 42–65 *	1936–40, 42–65	–	–
225	Калуга	202	1937–38, 47–65 *	1937–38, 47–65	1937–38, 47–60	1937–38, 47–60
55	Кашин	137	1936–65 *	1936–65	–	–
163	Кашира	219	1936–37, 39–65 *	1936–37, 39–65	–	–
36	Касьма	194	1942–52, 60–64	–	–	–
102	Клин	166	1936–64 *	1936–64	–	–
170	Козлов	124	1936–40, 45, 47–54, 60–65	–	–	–
230	Козельск . . .	142	1944–47, 49–62, 64–65	–	–	–
156	Коломна . .	112	1936–49, 59–65 *	–	–	–
78	Конаково	130	1953–54, 57–64	–	–	–
16	Кострино . . .	109	1940–41, 44–65 *	–	–	–
39	Котловка . .	152	1936–40, 42, 46–52, 45–56, 59–65 *	–	–	–
40	Красный Холм	166	1936–40, 43–65 *	–	–	–
143	Кривандино .	120	1944–65	–	–	–
184	Крюково . .	150	1936–41, 43, 46–57, 59–65	–	–	–
64	Кувшиново . .	252	1936–40, 42–65 *	1936–40, 42–65	–	–
142	Куровское	123	1936–41, 44–62	–	–	–
61	Лихославль	150	1945–65	–	–	–
120	Лосиноостровская	147	1938–64 *	–	–	–
80	Луковниково	240	1946–50, 52–60	–	–	–
148	Макарово	124	1947–64	–	–	–
45	Максатиха . .	134	1936–40, 42–65 *	–	–	–

Station No.	Station	Altitude (m)	1. Number of days with fog. 1a. Greatest number of days with fog by months	2. Recurrence of various number of days with fog for the year 2a Recurrence of various number of days with fog for the year	3 Mean duration of fogs 3a Maximum duration of fogs 3b Duration of fogs at various times of day	4. Recurrence of various duration of fogs by months
			Years of observations			
220	Малахово	155	1947, 49–65	–	–	–
219	Малоярославец	195	1936–43, 46–54, 57, 59–65 *	–	–	–
168	Меленки	130	1938–41, 44, 49–65 *	–	–	–
242	Михайлов	164	1936–65 *	1936–65	–	–
157	Михнево	178	1936–65 *	1936–65	1936–60	1936–60
146	Можайск	184	1936–64 *	1936–64	–	–
85	Молодой Туд	200	1943–48, 51–65 *	–	–	–
224	Мосальск	223	1939, 43–45, 47–55, 57–65 *	–	–	–
124	Москва, ВДНХ	148	1939–41, 48–64	–	1948–64	1948–64
130	Москва, ГМО	124	1946–65 *	1946–65	–	–
134	Москва, МГУ	192	1954–64	–	–	–
126	Москва, Сокольники	152	1949–64	–	–	–
121	Москва, с.-х. академия	167	1940–64 *	1940–64	–	–
91	Мостовая	250	1943–65	–	–	–
183	Мошок	165	1936–64 *	1936–64	–	–
186	Муром	119	1936–64 *	1936–64	1936–60	1936–60
12	Мыс Рожновский	103	1951–64	–	–	–
22	Мышкино	119	1936–41, 52–65	–	–	–
202	Надежда	195	1944–45, 47–49, 51–65	–	–	–
151	Наро-Фоминск	166	1941–65 *	–	–	–
24	Некрасовское	100	1939–65 *	–	–	–
90	Нелидово	200	1947–65	–	–	–
92	Никулино	230	1949–65	–	–	–
118	Ново-Иерусалим	159	1936–64 *	1936–64	–	–
196	Ново-Пречистое	244	1938–40, 44–50, 52–65 *	–	–	–
90	Нушполы	133	1961–64	–	–	–
20	Обухово	125	1936–49, 51, 52, 55, 57–65 *	–	–	–
257	Орлово	168	1944–60, 62–65	–	–	–
59	Осташков	218	1936–65 *	1936–65	–	–
246	Павелец	209	1936–64 *	1936–64	–	–
122	Павловская слобода	147	1949–65	–	–	–
129	Павловский Посад	134	1936–65 *	–	1936–60	–
33	Переславль-Залесский	174	1937–46, 48–65 *	1937–46, 48–65	1936–60	–
181	Петушки	147	1936–64 *	1936–64	–	–
261	Плавск и Паточная	180	1935–40, 42–43, 53–54, 56–65	–	–	–
131	Подмосковная	177	1949–53, 55, 57–59, 62–65	–	–	–
117	Починки	137	1939–42, 44–62 *	1939–42, 44–62	–	–
213	Починок	206	1936–40, 43–64 *	–	–	–
6	Пошехонье Володарск	109	1936–65 *	1936–65	1940–60	1940–60
7	Пустынь и Ильинское	150	1937–42, 45–50, 52–65	–	–	–
74	Пьянково	219	1944–51, 53–57, 60–65	–	–	–
89	Ржев	195	1936–41, 43–65 *	–	1931–41, 43–60	1936–41, 43–60
79	Редкино, ТОС	132	1946–48, 50–64	–	–	–
217	Рославль	219	1938–40, 44–65 *	1938–40, 44–65	1938–40, 44–60	1938–40, 44–60
31	Ростов	99	1936–45, 58–65	–	–	–
207	Рудня	188	1936–40, 44–64 *	–	–	–
15	Рыбинск, ГМО	104	1946–65 *	1946–65	–	–
236	Рыбное и Старое Веселово	115	1949–60	–	–	–
52	Ряд	161	1946–49, 54–65	–	–	–
247	Ряжск	125	1936–41, 50–65 *	–	1936–41, 50–60	–
237	Рязань	156	1936–64 *	1936–64	1936–57	1936–57
72	Савелово	122	1936–65 *	–	1937–60	–
167	Санниково и Яблонцы	125	1936–42, 44–47, 49, 51–65	–	–	–
239	Сасово	114	1936, 38, 39, 41–65 *	1936, 38, 39, 41–65	1936, 38–39, 41–60	–
203	Сафоново	210	1943–65 *	–	–	–

Station No.	Station	Altitude (m)	1. Number of days with fog. 1a. Greatest number of days with fog by months	2. Recurrence of various number of days with fog for the year 2a Recurrence of various number of days with fog for the year	3. Mean duration of fogs 3a Maximum duration of fogs 3b Duration of fogs at various time of day	4. Recurrence of various duration of fogs by months
			Years of observations			
180	Селивановское оп. поле	129	1938–48, 50–56, 58, 60, 65	–	–	–
5	Семеновское	150	1938–41, 44–65 *	–	–	–
57	Семеновское	132	1954–64	–	–	–
161	Серпухов	163	1936–45, 52–65 *	–	–	–
28	Саманицы	148	1953–55, 57–65	–	–	–
245	Скопин	150	1937, 39–41, 50–65	–	–	–
211	Смоленск	233	1936–40, 43–65 *	1936–40, 43–65	1937, 45–60	1937, 45–60
140	Собакино	187	1936–40, 43–56, 60–65	–	–	–
227	Соболевка	228	1949–65	–	–	–
226	Спас-Деменск	237	1936–40, 44–59, 63, 65 *	1936–40, 44–59, 63, 65	–	–
82	Старица	179	1936–40, 43–54, 60–65	–	–	–
241	Старожилово	149	1936–42, 44–48, 50–64 *	1936–42, 44–48, 50–64	–	–
154	Старый Спас	125	1944–64	–	–	–
38	Стажки	150	1949–50, 52–65	–	–	–
166	Суздаль	125	1936–64 *	–	–	–
228	Судиничи	237	1936–40, 42–45, 47–52, 57–65 *	–	1936–40, 45, 47–52, 57–64	–
191	Сычевка	200	1938–40, 44–47, 56–64	–	–	–
205	Темкино	202	1936–41, 44–55, 57–65 *	–	–	–
53	Толмачи	186	1937–40, 42–65 *	1937–40, 42–65	–	–
65	Торжок	171	1937–40, 42–65 *	1937–40, 42–65	–	–
84	Торопец	187	1936–40, 43–65 *	1936–40, 43–65	1936–40, 43, 45–65	–
62	Троица-Нерль	110	1943, 45–65	–	–	–
172	Троицы	135	1944, 49–54, 57–65	–	–	–
255	Тула	165	1947–65	–	1950–64	1950–64
233	Тума	123	1936–64 *	1936–64	–	–
83	Тургиново	130	1936–40, 44–65 *	1936–40, 44–65	–	–
21	Тутаев	125	1936–65 *	1936–65	–	–
123	Тушино	140	1941, 46–56, 58–63	–	–	–
26	Углич	124	1936–65 *	1936–65	1936–60	–
256	Узловая	240	1937–64 *	1937–64	–	–
215	Ускосы	162	1945–55, 58, 60–61, 63–65	–	–	–
34	Успенский с.-х. техникум	240	1936–41, 45, 47–51, 53–65 *	–	–	–
197	Устье	191	1944–51, 53, 56–65	–	–	–
229	Фаянсовая и Киров	208	1937–38, 40, 44–65 *	1937–38, 40, 44–65	–	–
254	Ханино	200	1945–60	–	–	–
155	Хлевино	160	1947–48, 50–51, 53–65	–	–	–
87	Хлопово-Городище	140	1948, 50–65	–	–	–
263	Черив и Скуратово	245	1936–41, 44–52, 59–65 *	–	1936–41, 44–52 59–64	–
187	Черсево	120	1939, 45–48, 50–58, 60, 64–65	–	–	–
145	Черусти	127	1936–41, 44–56, 60–65 *	–	–	–
9	Шарна	101	1945–65 *	–	–	–
109	Шаховская	188	1936–37, 41, 43–56, 59–65	–	–	–
243	Шацк	121	1937–38, 42–65 *	1937–38, 42–65	–	–
240	Шилово	98	1936–64 *	1936–64	–	–
206	Шокино	229	1946–47, 50–65	–	–	–
95	Щучье	176	1946–65	–	–	–
68	Яровинка	221	1944–45, 49–65	–	–	–
25	Ярославль	98	1936–65 *	1936–65	1936–60	1936–60

Note: Asterisk (*) means that for the corresponding station the column in Table 1 also contains data of Table 1a for the same period.

13 Заказ № 798

Section 3. Snowstorms

Station No	Station	Altitude (m)	1. Mean number of days with snowstorms	1a. Greatest number of days with snowstorms	2 Mean number of days with storms of drifting snow	3 Duration of snowstorm 3a Greatest duration of snowstorms	4,5&6 Recurrence of various wind directions, various wind velocities, and temperature within various limits during snowstorms	7. Recurrence of various number of days with snowstorms during year
			Years of observations					
168	Александров	185	1936–64	1936–64	1936–64	–	–	1936–64
252	Алексин	192	1950–64	–	–	–	–	–
75	Бежица	228	1944–64	1944–64	–	–	–	–
46	Бежецк	140	1936–64	1936–64	1936–64	–	1936–63	1936–64
259	Белев	175	1936–41, 43–64	1936–41, 43–64	1943–44, 46–64	1936–40, 43–64	–	1936–41, 43–64
222	Великово	200	1954–64	–	–	–	–	–
37	Березовский Рядок	146	1945–64	–	–	–	–	–
42	Бологое	187	1936–41, 43–64	–	–	–	–	–
193	Болшево	220	1949–64	–	–	–	–	–
56	Большие Сетки	148	1954–64	–	–	–	–	–
93	Большое Кобяково	250	1946–62	–	–	–	–	–
10	Брейтово	105	1946–47, 49–64	1946–47, 49–64	–	–	–	–
194	Велиж	165	1936–41, 43–44, 47–64	1936–41, 43–44, 47–64	1943–48, 52–53, 57–64	–	1944–63	1936–41, 43–44, 47–64
253	Венев	175	1936–41, 44–64	1936–41, 44–64	–	–	–	1936–41, 44–64
248	Верда	124	1937–43, 45–64	1937–43, 45–64	–	–	–	1937–43, 45–64
29	Вёска	126	1943–44, 46–47, 49–64	1943–44, 46–47, 49–64	–	–	–	–
35	Весьегонск	106	1949–64	1949–64	–	–	–	–
176	Владимир	168	1946–64	1946–64	–	–	–	1946–64
2	Владычное	140	1941–46, 48–64	1941–46, 48–64	–	–	–	–
208	Волово	278	1936–60	1936–60	1936–40, 46–59	–	1936–60	1936–60
110	Волоколамск	187	1936–41, 43–64	1936–41, 43–64	–	–	–	1936–41, 43–64
30	Высоково	180	1936–37, 41–42, 46–64	1936–37, 41–42, 46–64	–	–	–	–
54	Высоково	180	1943–64	1943–64	–	–	–	–
51	Вышний Волочек	167	1936–64	1936–64	–	1945–64	1936–60	1936–64
171	Вязники	122	1951–64	–	1949–64	–	–	–
190	Вязьма	252	1936–41, 43–64	1936–41, 43–64	1943–44, 46–64	1935–40, 45–64	1936–41, 43–63	1936–41, 43–64
3	Гаютино	122	1950–64	–	–	–	–	–
195	Гжатск	194	1937–38, 43–44, 48–64	1937–38, 43–44, 48–64	–	–	–	–
60	Горицы	150	1944–64	1944–64	–	–	–	–
174	Гороховец	79	1940–64	1940–64	–	–	–	1940–64
185	Гусь-Хрустальный	135	1937–64	1937–64	1937–64	–	–	1937–64
13	Данилов	155	1936–64	1936–64	–	–	–	–
198	Демидов	165	1937–40, 43–64	1937–40, 43–64	–	–	–	1937–40, 43–64
103	Дмитров	183	1943–64	1943–64	–	–	–	–
201	Духовщина	213	1936–40, 44–64	1936–40, 44–64	–	–	–	1936–40, 44–64
234	Елатьма	132	1937–42, 44–48 51–64	–	1936–63	–	1936–60	–
212	Ельня	232	1937–40, 43–64	1937–40, 43–64	–	–	–	1937–40, 43–64
218	Ершичи	200	1944–53, 55–64	1944–53, 55–64	–	–	–	–
265	Ефремов	216	1939–64	–	1955–64	–	–	–
232	Жиздра	192	1938–41, 45–55, 58–64	1938–41, 45–55, 58–64	1945–58, 61–64	–	1938–41, 45–63	1938–41, 45–64
104	Загорск	205	1941–64	1941–64	–	–	–	1941–64
63	Заречье	143	1945–64	1945–64	–	–	–	–
17	Исады	88	1944–64	1944–64	–	–	–	–
73	Калинин	136	1936–64	1936–64	–	1936–64	1936–60	1936–64
225	Калуга	202	1936–59	1936–59	1942–64	1936–59	1942–63	1936–59
190	Карманово	216	1954–61	–	–	–	–	–
127	Каменка	179	1944–60	–	–	–	–	–
235	Касимов	108	1947–49, 51–64	–	–	–	–	–
55	Кашин	137	1936–64	1936–64	1936–64	–	–	1936–64
163	Кашира	219	1940–64	1940–64	1936–63	1940–64	–	1940–64

Station No.	Station	Altitude (m)	1. Mean number of days with snowstorms	1a. Greatest number of days with snowstorms	2. Mean number of days with storms of drifting snow	3. Duration of snowstorm 3a. Greatest duration of snowstorms	4,5&6. Recurrence of various wind directions, various wind velocities and limites during snowstorms	7. Recurrence of various number of days with snowstorms during year
			Years of observations					
80	Косова Гора	180	1948–64	–	–	–	–	–
36	Кеъма	194	1942–64	1942–64	1942–64	–	–	1942–64
102	Клин	166	1940–64	1940–64	1936–40, 44–64	1940–64	–	1940–64
170	Ковров	124	1936–64	1936–64	–	–	–	1936–64
230	Ковельск	142	1944–54, 61–64	–	–	–	–	–
16	Коприно	109	1941–43, 51–64	1941–43, 51–64	–	–	–	–
156	Коломна	112	1955–64	–	–	–	–	–
214	Красиловка	192	1954–64	–	–	–	–	–
40	Красный Холм	166	1948–64	1948–64	–	–	–	–
64	Кубшиново	252	1936–40, 42–64	1936–40, 42–64	–	–	–	1936–40, 42–64
142	Куровское	123	1936–52, 55–64	1936–52, 55–64	–	–	–	1936–52, 55–64
141	Ленино-Дачное	172	1951–64	–	–	–	–	–
61	Лихославль	150	1946–47, 49–64	1946–47, 49–64	–	–	–	–
130	Лосиноостровская	147	1947–64	–	–	–	–	–
60	Луковниково	240	1946–64	1946–64	–	–	–	–
45	Максатиха	134	1936–64	1936–64	–	–	–	1936–64
219	Малоярославец	195	1943–59, 61–64	1943–59, 61–64	–	–	–	1943–50, 61–64
70	Медное	143	1949–64	–	–	–	–	–
188	Меленки	130	1955–64	–	–	–	–	–
258	Мельгуново	158	1963–64	–	–	–	–	–
242	Михайлов	164	1936–64	1936–64	–	1936–64	–	1936–64
157	Михнево	178	1939–58	1939–58	–	–	–	–
113	Мишнево	144	1949–64	–	–	–	–	–
146	Можайск	184	1936–45, 49–64	1936–45, 49–64	1936–64	1936–40, 42–65	–	1936–45, 49–64
224	Мосальск	223	1937–39, 43–44, 48–64	1937–39, 43–44, 48–64	–	–	–	–
124	Москва, ВДНХ	148	1948–64	1948–64	–	1948–64	–	–
130	Москва ГМО	124	1950–64	–	–	–	–	–
136	Москва, ЗИЛ	130	1948–64	–	–	–	–	–
134	Москва, МГУ	192	1964–64	–	–	–	–	–
126	Москва, Сокольники	152	1961–64	–	–	–	–	–
121	Москва, с.-х. академия	167	1966–63	–	–	–	1936–60	–
91	Мостовая	250	1944, 46–47, 49–64	1944, 46–47, 49–64	–	–	–	–
189	Мешок	165	1938–57	1938–57	–	–	–	–
186	Муром	119	1936–64	1936–64	–	1936–64	1936–60	1936–64
204	Мухино	157	1954–63	–	–	–	–	–
12	Мыс Рожновский	103	1951–64	1951–64	1951–64	1951–65	–	–
22	Мышкино	119	1936–64	1936–64	–	–	–	1936–64
1	Микса	132	1955, 57–64	–	–	–	–	–
202	Надежда	195	1946–64	–	–	–	–	–
151	Наро-Фоминск	166	1941–64	1941–64	–	–	–	1941–64
24	Некрасовское	100	1937–56	–	–	–	–	–
133	Немчиновка	177	1944–64	1944–64	1945–64	–	–	–
23	Новое Село	125	1940–62	1940–62	–	–	–	–
118	Ново-Иерусалим	159	1935–64	–	–	–	–	–
196	Ново-Пречистое	244	1938–40, 44–64	1938–40, 44–64	–	–	–	1938–40, 44–64
98	Нушполы	133	1948–64	–	–	–	–	–
20	Обухово	125	1936–55, 57–60, 62–64	1936–55, 57–60, 62–64	–	–	–	1936–55, 57–60, 62–64
257	Орлово	168	1944–58	–	–	–	–	–
59	Осташков	218	1936–40, 42–64	1936–40, 42–64	–	–	–	1936–40, 42–64
246	Павелец	209	1936–64	1936–64	1936–63	1940–64	1936–60	1936–64
129	Павловский Посад	134	1951–65	–	–	–	–	–
125	Павшино	139	1947–56	–	–	–	–	–
33	Переславль-Залесский	171	1942–64	1942–64	1936–44, 46–[illegible]	–	–	–
181	Петушки	147	1950–54	–	–	–	–	–
131	Подмосковная	177	1946–64	1946–64	–	–	–	–

Station No.	Station	Altitude (m)	1 Mean number of days with snowstorms	1a. Greatest number of days with snowstorms	2 Mean number of days with storms of drifting snow	3 Duration of snowstorm 3a Greatest duration of snowstorms	4,5&6 Recurrence of various wind directions, various wind velocities, and temperature within various limits during snowstorms	7. Recurrence of various number of days with snowstorms during year
			Years of observations					
117	Починки . . .	137	1936–59	1936–59	–	–	–	1936–59
213	Починок . . .	206	1936–37, 39–41, 43–64	1936–37, 39–41, 43–64	–	1936–40, 43–57	–	1936–37, 39–41, 43–64
6	Пошехонье-Володарск . .	109	1938–64	1938–64	1938–64	1938–64	–	1938–64
89	Ржев	195	1936–40, 43–64	1936–40, 43–64	–	1936–40, 43–64	1936–41, 44–63	1936–40, 43–64
49	Рождество . .	250	1942–60	–	–	–	–	–
217	Рославль . . .	219	1936–41, 43–64	1936–41, 43–64	–	1936–40, 44–64	–	1936–41, 43–64
31	Ростов	99	1936–64	1936–64	1936–64	–	–	1936–64
207	Рудня	188	1936–40, 49–64	1936–40 49–64	–	–	–	–
15	Рыбинск, ГМО .	104	1947–64	1947–64	–	–	–	–
18	Рыбинск, город	98	1936–38, 41–55	–	–	–	–	–
236	Рыбное и Старое Веселово . .	115	1948–56, 58–60	–	–	–	–	–
52	Ряд	161	1945–64	1945–64	–	–	–	–
247	Ряжск	125	1936–64	1936–64	–	1936–64	–	1936–64
237	Рязань	156	1942–64	1942–64	1936–64	1942–57, 62–64	1942–63	1942–64
72	Савелово . . .	122	1936–44, 51–64	1936–44, 51–64	–	–	–	–
167	Санниково и Яблонцы .	125	1936–42, 44–51, 53–64	1936–42, 44–51, 53–64	–	–	–	–
239	Сасово	114	1936–64	1936–64	–	1936–64	–	1936–64
203	Сафоново . .	210	1943–64	1943–64	–	–	–	–
180	Селивановское оп. поле . . .	129	1936–64	1936–64	–	–	–	1936–64
57	Семеновское .	150	1944–64	1944–64	–	–	–	1944–64
161	Серпухов . . .	163	1954–64	–	–	–	–	–
164	Сима	150	1951–64	–	–	–	–	–
28	Симаницы . . .	148	1949–61	–	–	–	–	–
245	Скопин	150	1937–64	1937–64	–	–	–	–
211	Смоленск . . .	233	1936–39, 43–64	1936–39, 43–64	1936–41, 43–64	1936–38, 45–64	1944–63	1936–39, 43–64
140	Собакино . . .	187	1936–44, 51–64	–	–	–	1936–60	–
227	Соболевка . . .	228	1949–59	–	–	–	–	–
226	Спас-Деменск	237	1936–39, 44–64	1936–39, 44–64	1943–64	–	–	1936–39, 44–64
41	Спас-Забережье	141	1949–56, 58–64	–	–	–	–	–
82	Старица . . .	179	1936–40, 43–64	1936–40, 43–64	1939–40, 43–44, 46–64	–	–	1936–40, 43–64
241	Старожилово .	149	1936–44, 46–64	1936–44, 46–64	–	–	–	1936–44, 46–64
154	Старый Спас	125	1961–64	–	–	–	–	–
38	Стяжки . .	150	1949–64	–	–	–	–	–
166	Суздаль	125	1937–42, 44–64	1937–42, 44–64	–	–	–	–
229	Сухиничи .	237	1936–40, 43–64	1936–40, 43–64	1943–49, 51–64	1936–41, 43–64	–	1936–40, 43–64
191	Сычевка .	200	1936–41, 43–64	1936–41, 43–64	1943–64	–	–	1936–41, 43–64
205	Темкино .	202	1936–40, 44–64	1936–40, 44–64	–	–	–	1936–40, 44–64
53	Толмачи	186	1938–40, 42–64	1938–40, 42–64	–	–	–	1938–40, 42–64
65	Торжок	171	1939–40, 42–64	1939–40, 42–64	1937–40, 42–64	–	–	1939–40, 42–64
84	Торопец	187	1951–64	–	–	1936–41, 43–65	–	–
62	Троица-Нерль	110	1943–64	1943–64	–	–	–	–
172	Троицы	135	1951–55, 57–60, 62–64	–	–	–	–	–
255	Тула . .	165	1937–64	1937–64	1942–64	1944–64	1937–64	1937–64
233	Туча	123	1936–41, 44–64	1936–41, 44–64	–	1936–41 44–64	–	1936–41, 44–64
83	Тургиново	130	1936–40, 43–64	1936–40, 43–64	–	–	–	1936–40, 43–64
21	Тутаев	125	1936–64	1936–64	–	–	1936–62	1936–64
123	Тушино	140	1938–41, 1946, 48–52, 54–63	–	–	–	–	–
26	Углич	124	1937–42, 45–64	1937–42, 45–64	–	–	–	1937–42, 45–64

Station No.	Station	Altitude (m)	1. Mean number of days with snowstorms	1a Greatest number of days with snowstorms	2. Mean number of days with storms of drifting snow	3 Duration of snowstorm 3a Greatest duration of snowstorms	4,5&6. Recurrence of various wind directions, various wind velocities, and temperature within various limites during snowstorms	7. Recurrence of various number of days with snowstorms during year
			Years of observations					
44	Удомля	210	1946–47, 49–64	1946–47, 49–64	–	–	–	–
256	Узловая . . .	240	1936–64	1936–64	–	–	–	1936–64
48	Усаты	138	1948–64	–	–	–	–	–
215	Ускосы	162	1945–64	1945–64	–	–	–	–
34	Успенский с.-х. техникум	240	1936–41, 45–60, 63–64	1936–41, 45–60 63–64	–	–	–	1936–41, 45–60, 63–64
229	Фаянсовая и Киров	208	1936–40, 44–64	1936–40, 44–64	–	–	–	–
8	Федино	120	1946–58	–	–	–	–	–
254	Ханино	200	1946–60	–	–	–	–	–
87	Хлопово-Городище	140	1948–64	1948–64	–	–	–	–
231	Хотьково . . .	169	1945–64	–	–	–	–	–
263	Чернь и Скуратово . .	245	1936–64	1936–64	1944–64	1936–40 44–64	–	1936–64
187	Черсево	120	1939–41, 44–47, 51–58, 63–64	–	–	–	–	–
145	Черусти . . .	127	1948–64	1948–64	–	–	–	–
9	Шарна	101	1945–64	1945–64	–	–	–	–
109	Шаховская . .	188	1936–41, 43–64	1936–41, 43–64	–	–	–	–
243	Шацк	121	1951–64	–	1939–40, 46–56, 60–64	–	–	1936–41, 43–64 –
240	Шилово . . .	98	1936–64	1936–64	1954–64	1936–64	–	1936–64
47	Шлинский гидроузел . .	202	1950–64	–	–	–	–	–
206	Шокино . . .	229	1946–64	1946–64	–	–	–	–
95	Шучье	176	1946–56	–	–	–	–	–
165	Юрьев-Польский	152	1947–64	1947–64	–	1947–64	–	–
68	Яровиика . . .	221	1945–64	–	–	–	–	–
25	Ярославль . . .	98	1936–64	1936–64	–	1936–64	–	1936–64

Section 4. Storms

Station No	Station	Altitude (m)	1. Mean number of days with storm 1a Greatest number of days with storm	2. Mean duration of storms 2a. Duration of storms at various times of day	3 Recurrence of various number of days with storm during year
			Years of observations		
168	Александров . .	185	1936–40, 42–65	–	1936–40, 42–65
216	Александровка	191	1947–55, 57–59, 61–65 *	–	–
252	Алексин . . .	192	1941, 50–65 *	–	–
46	Бежецк . . .	140	1936–37, 39–40, 42–65	–	1936–37, 39–40, 42–65
259	Белев	175	1936–41, 43–65	–	1936–41, 43–65
222	Беликово . . .	200	1954–65 *	–	–
94	Белый	212	1936–40, 44–65	–	–
37	Березовский Рядок . . .	146	1945–54, 56–65 *	–	–
42	Бологое	187	1936–65	1942–64	1936–65
193	Болшево . . .	220	1948–65	–	–
10	Брейтово . . .	105	1940–65	–	–
194	Велиж	165	1936–40, 43–65	–	1936–40, 43–65
253	Вешен	175	1937–41, 44–65	–	–
248	Верда	124	1938–65	–	–
29	Вёска	126	1945–65	–	–
35	Весьегонск . . .	106	1951–65 *	–	–
176	Владимир . . .	168	1936–45, 47–65	1941–65	1936–45, 47–65
2	Владычное . .	140	1938, 40–65	–	–
262	Волово	276	1936–65	1941–65	1936–65
110	Волоколамск	187	1936–65	–	1936–65
54	Высоково . . .	180	1944–65	–	–
51	Вышний Волочек . . .	167	1936–41, 43–65	–	1936–41, 43–65
171	Вязники . . .	122	1936–65	–	1936–65
199	Вязьма	252	1936–40, 43–65	–	1936–40, 43–65
195	Гжатск	194	1937–39, 43–65	–	–
60	Горицы . . .	150	1953–54, 56–65 *	–	–
174	Гороховец . . .	79	1936–65	–	–
185	Гусь-Хрустальный . . .	135	1938–65	–	–
13	Данилов . . .	155	1936–65	–	–
210	Дебря	165	1947–65 *	–	–
198	Демидов . . .	165	1936–40, 44–65	–	–
103	Дмитров . . .	183	1941–65	–	–
201	Духовщина .	213	1937–40, 44–57 *	–	–
234	Елатьма . . .	132	1936–65	–	1936–65
212	Ельня	232	1937–40, 44–65	–	–
218	Ершичи . . .	200	1944–65	–	–
265	Ефремов . . .	216	1936–65	–	1936–65
232	Жиздра . . .	192	1937–41, 45–65	–	1937–41, 45–65
104	Загорск	205	1941–65	–	–
88	Западная Двина	200	1936–40, 42–65	1942–62, 64, 65	1936–40, 42–65

Station No.	Station	Altitude (m)	1. Mean number of days with storm 1a. Greatest number of days with storm	2. Mean duration of storms 2a. Duration of storms at various times of day	3. Recurrence of various number of days with storm during year
			Years of observations		
58	Ивановское . .	212	1947–48, 50–51, 53–65 *	–	–
17	Исады	88	1944–65	–	–
238	Кадом	98	1946–65	–	–
73	Калинин . . .	136	1936–65	1946–65	1936–65
225	Калуга	202	1936–65	1942–65	1936–65
235	Касимов . . .	108	1947–65 *	–	–
55	Кашин	137	1936–40, 42–65	–	1936–40, 42–65
163	Кашира . . .	219	1936–65	–	1936–65
36	Кесьма	194	1942–65	–	–
102	Клин	166	1936–65	–	1936–65
170	Ковров	130	1936–65	–	–
192	Козеевщина . .	113	1947–50, 53–65	–	–
230	Козельск . . .	142	1944–65	–	–
156	Коломна . . .	112	1936–65	–	–
16	Коприно . . .	109	1943–65	–	–
39	Котлован . . .	152	1942–62 *	–	–
40	Красный Холм .	166	1936–39, 49–65	–	–
143	Кривандино . .	120	1951–59, 61–65 *	–	–
184	Крюково . .	150	1946–65	–	–
64	Кушниново . .	252	1936–40, 42–65	1942–65	1936–40, 42–65
4	Кукобой . . .	150	1947–65 *	–	–
142	Куровское . . .	123	1936–65	–	–
141	Ленино-Дачное	172	1952–65 *	–	–
61	Лихославль . .	150	1952–65 *	–	–
120	Лосиноостровская	147	1938–65	1941–65	–
80	Луковниково	240	1944, 46–65	–	–
45	Максатиха . . .	139	1936–40, 42–65	–	–
219	Малоярославец	195	1936–65	–	1936–65
188	Меленки . . .	130	1940–44, 46–65	–	–
242	Михайлов . . .	164	1936–65	–	–
157	Михнево . . .	178	1936–65	1941–64	1936–65
146	Можайск .	184	1936–65	1941–65	1936–65
221	Мокрая . .	144	1946, 48–65 *	–	–
85	Молодой Туд	200	1943–65	–	–
224	Мосальск . . .	223	1937–39, 41, 43–65	–	–
124	Москва, ВДНХ	148	1948–65 *	1949–65	–
130	Москва, ГМО	124	1947–65 *	–	–
136	Москва, ЗИЛ	130	1947–65 *	–	–
121	Москва, с. х. академия . .	167	1936–42, 44–46, 48–65	–	1936–42, 44–46, 48–65
91	Мостовая . .	250	1949–63 *	–	–
183	Мошок . . .	165	1938, 40–54, 57, 59–65	–	–
186	Муром . . .	119	1936–65	1941–65	1936–65
12	Мыс Рожновский . . .	103	1951–65 *	–	–
22	Мышкино . .	119	1936–65	–	–
202	Надежда . .	195	1947–48, 50–65 *	–	–
151	Наро Фоминск .	166	1941–65	–	–
133	Немчиновка . .	177	1944–65	–	–

Station No.	Station	Altitude (m)	1. Mean number of days with storm 1a. Greatest number of days with storm	2. Mean duration of storms 2a. Duration of storms at various times of days	3. Recurrence of various days with storm during year
			Years of observations		
23	Новое Село . .	125	1936, 40–62	–	–
118	Ново-Иерусалим	159	1937–65	–	–
196	Ново-Пречистое	244	1937–40, 44–65	–	–
20	Обухово . . .	125	1941–65	–	–
257	Орлово	168	1944–65	–	–
59	Осташков . . .	218	1936–65	–	1936–65
246	Пашелец . . .	209	1936–65	1941–65	1936–65
129	Павловский Посад . . .	134	1936–41, 43–65	–	–
33	Переславль-Залесский . .	174	1936–65	–	1936–65
181	Петушки . . .	147	1936–65	–	–
261	Плавск и Паточная . .	180	1937–40, 53–61, 63–65 *	–	–
131	Подмосковная	177	1946–65	–	–
117	Почники . . .	137	1941–65	–	–
213	Починок . . .	206	1936–40, 44–65	–	–
6	Пошехонье-Володарск . .	109	1936–65	1941–65	1936–65
74	Пьянково . . .	219	1945–65	–	–
89	Ржев	195	1936–41, 43–65	–	1936–41, 43–65
49	Рождество . .	250	1939, 42–60	–	–
217	Рославль . . .	219	1936–40, 44–65	–	1936–40, 44–65
31	Ростов	99	1936–65	1941–65	1936–65
207	Рудня	188	1936–40, 44–45, 49–65	–	–
15, 18	Рыбинск . . .	104	1936–65	–	–
52	Ряд	161	1945–65	–	–
247	Ряжск	125	1936–65	–	1936–65
237	Рязань	156	1936–65	–	1936–65
72	Савелово . .	122	1936–65	–	–
244	Сапожок . .	150	1940, 43, 48–65 *	–	–
239	Сасово	114	1936–65	1943–65	1936–65
203	Сафоново . . .	214	1936–40, 44–65	–	–
180	Селиваново-ское оп. поле	129	1937–65	–	–
5	Семеновское	150	1944–59 *	–	–
161	Серпухов . . .	163	1936–50, 52–65	–	–
164	Сима	150	1946–65	–	–
245	Скопин	150	1937–65	–	–
211	Смоленск . . .	233	1936–40, 44–65	1944–65	1936–40, 44–65
140	Собакино . . .	187	1936–65	–	–
226	Спас-Деменск .	237	1936–40, 44–65	1946–65	1936–40, 44–65
41	Спас-Забережье	141	1951–65 *	–	–
82	Старица . . .	179	1936–40, 44–65	–	–
241	Старожилово	149	1936–65	–	–
166	Суздаль . . .	125	1937, 39–42, 44–65	–	–
228	Сухиничи . . .	237	1936–40, 44–65	–	–
191	Сычевка . .	200	1937–40, 44–50, 52–65	–	1937–40, 44–50, 52–65

Station No.	Station	Altitude (m)	1. Mean number of days with storm 1a. Greatest number of days with storm	2 Mean duration of storms 2a. Duration of storms at various times of days	3. Recurrence of various days with storm during year
			Years of observations		
205	Гемкино . . .	202	1936–41, 45–65	1945–65	1936–41, 45–65
53	Толмачи . . .	186	1938–40, 42–65	–	–
65	Торжок	171	1937–40, 42–65	–	–
84	Торопец . . .	187	1936–40, 43–65	–	1936–40, 43–65
255	Тула	165	1936–65	1946–65	1936–65
233	Тума	123	1936–65	–	–
83	Тургиново . . .	128	1936–40, 44–65	–	–
21	Тутаев	125	1944–65	–	–
26	Углич	124	1936–65	–	1936–65
44	Удомля	210	1946–65 *	–	–
256	Узловая . . .	240	1936–41, 43–65	–	–
215	Ускосы	162	1945–65	–	–
34	Успенский с.-х. техникум . .	240	1936–41, 45–65	–	–
229	Фаянсовая и Киров . . .	208	1937–40, 44, 46–65	–	–
155	Хлевино . . .	160	1946–65	–	–
263	Чернь и Скуратово	245	1936–41, 44–65	–	–
187	Черсено	120	1937, 40, 42–65	–	–
145	Черусти . . .	127	1936–65	–	1936–65
9	Шарна	101	1945–65	–	–
109	Шаховская . .	188	1936–41, 43–65	–	–
243	Шацк	121	1937–65	–	1937–65
240	Шилово . .	98	1936–37, 50–65 *	–	–
206	Шокино . . .	228	1946–65 *	–	–
165	Юрьев Польский . . .	152	1936–40, 44, 46, 48, 49, 56–65 *	–	–
25	Ярославль . . .	98	1936–65	–	1936–65
101	Яхрома, нижняя ст. . .	126	1936–42, 44–45, 50–52, 55, 58–59 *	–	–

Note: Asterisk (*) means that for the corresponding station in column of Table 1 there are no data for Table 1a.

Section 5. Hail

Station No.	Station	Altitude (m)	1. Mean number of days with hail	1a. Greatest number of days with hail
			Years of observations	
168	Александров . . .	185	1907, 09–18, 25–30, 32–65	1907, 09–18, 25–30, 32–65
252	Алексин	192	1950–65	–
223	Андреевское . .	204	1907–14, 20–35	1907–14, 20–35
200	Батищево . . .	215	1901–23, 25–40	1901–23, 25–40
75	Бдынь	228	1944–49, 51–59, 65	–
46	Бежецк	140	1891–1910, 18–19, 28–29, 39–40, 42–65	1891–1910, 18–19, 28–29, 39–40, 42–65
259	Белев	175	1901–23, 27–41, 43–59	1901–23, 27–41, 41–59
222	Беликово	200	1945–65	1945–65
94	Белый	212	1924, 26–27, 31–65	1924, 26–27, 31–65
182	Березники . . .	100	1904–07, 09, 11–17, 19–21, 26–30	–
37	Березовский Рядок	146	1945–65	1945–65
135	Богаево	190	1915–28, 30–31	–
260	Богородицк, с.-х. техникум . . .	228	1902–05, 07–16, 28–33	–
42	Бологое	187	1931–65	1931–65
193	Болшево	220	1948–65	–
100	Борщево	160	1915–35	–
10	Брейтово . . .	105	1950–65	–
106	Бренево	145	1923–31	–
119	Ватутино	137	1951–65	–
194	Велиж	165	1906–07, 11–12, 36–65	1906–07, 11–12, 36–65
253	Венев	175	1930–41, 45–65	1930–41, 45–65
248	Верда	124	1927–65	1927–65
71	Верхневолжский бейшлот	205	1902–23, 26–40	1902–23, 26–40
35	Весьегонск . . .	106	1901–05, 24–30, 32, 34–40, 51–65	1901–05, 24–30, 32, 34–40, 51–65
77	Видогощи . . .	130	1901–16	–
159	Вихрово и Новоселки	165	1915–19, 21–36	1915–19, 21–36
176	Владимир . . .	168	1903–65	1903–65
175	Владимирское оп. поле . . .	170	1910–29, 34–46	1910–29, 34–46
2	Владычное . . .	140	1928–35, 38–65	1928–35, 38–65
262	Волово	276	1901–04, 13–20, 1925–65	1901–04, 13–20, 1925–65
110	Волоколамск . .	187	1932–35, 37–41, 1943–65	1932–35, 37–41, 1943–65
66	Вселуки	209	1944–65	–
54	Высоково . . .	180	1944–65	–
30	Высоково . . .	150	1935–65	1935–65
51	Вышний Волочек	167	1891–65	1891–65
171	Вязники	122	1914–16, 18, 1934–65	1914–16, 18, 34–65
199	Вязьма	252	1936–40, 43–65	1936–40, 43–65
177	Вяткино и Бараки	120	1907–35, 38–42, 1944–46	1907–35, 38–42, 44–46
3	Гаютино	122	1950–63	–
195	Гжатск	194	1937–38, 43–65	1937–38, 43–65
139	Гжель	145	1915–30, 33–35	–
19	Глебово	130	1923–42	–
60	Горицы . . .	150	1942–65	–

Station No.	Station	Altitude (m)	1. Mean number of days with hail	1a. Greatest number of days with hail
			Years of observations	
174	Гороховец	79	1914–20, 31–65	1914–20, 31–65
185	Гусь-Хрустальный	135	1928–30, 32–35, 38–65	1928–30, 32–35, 38–65
76	Давыдово	242	1896–97, 99, 1901–15	—
13	Данилов	155	1910–65	1910–65
210	Дебря	165	1937–39, 44–65	1937–39, 44–65
198	Демидов	165	1937–40, 1944–1965	1937–40, 44–65
103	Дмитров	183	1915–16, 22–34, 41–65	1915–16, 22–34, 41–65
209	Дорогобуж	179	1954–65	—
250	Егнышевка	160	1925–41	—
234	Елатьма	132	1891–1904, 08–16, 20, 22–65	1891–1904, 08–16, 20, 22–65
212	Ельня	232	1937–40, 44–65	1937–40, 44–65
81	Емельяново	130	1943–65	—
218	Ершичи	200	1937–39, 44–65	1937–39, 44–65
265	Ефремов	216	1893–99, 1901–05, 31–65	1893–99, 1901–05 31–65
232	Жиздра	192	1897–1917, 21–41, 45–65	1897–1917, 21–41, 45–65
251	Жуково	212	1918–24, 27–36	—
104	Загорск	205	1916–21, 41–65	1916–21, 41–65
43	Залучка	150	1947–65	—
88	Западная Двина	200	1933–37, 39–40, 43–65	1933–37, 39–40, 43–65
63	Заречье	143	1943–65	—
147	Захарьино	150	1912–19, 26–35	—
97	Зитьково и Старикова	120	1913–30, 32–35, 53–65	1913–30, 32–35, 53–65
69	Изведово	236	1944–65	—
17	Исады	88	1944–65	—
73	Калинин	136	1891–1910, 12–19, 22–23, 25, 27–40, 42–65	1891–1910, 12–19, 22–23, 25, 27–40, 42–65
225	Калуга	202	1891–1904, 08–13, 21, 25–65	1891–1904, 08–13, 21, 25–65
127	Карповка	179	1945–64	—
235	Касимов	108	1947–51, 53–65	—
55	Кашин	137	1930–65	1930–65
163	Кашира	219	1904–05, 07–16, 27–65	1904–05, 07–16, 27–65
36	Кесьма	194	1942–65	1942–65
173	Киржач	170	1903–18	—
102	Клин	166	1940–65	1940–65
170	Ковров	130	1900–05, 27–34, 36–51, 56–65	1900–05, 27–34, 36–51, 56–65
192	Колесвшина	113	1946–65	—
230	Козельск	142	1944–65	1944–65
156	Коломна	112	1913–19, 24–29, 32–65	1913–19, 24–29, 32–65
39	Котлован	152	1901–04, 07, 09–18, 24–65	1901–04, 07, 09–18, 24–65
144	Красновидово	183	1913–32	—
40	Красный Холм	166	1925–65	1925–65
143	Кривандино	120	1944–65	1945–65
184	Крюково	150	1925–65	1925–65
114	Крюково	205	1944–65	—
64	Кушниново	252	1922–27, 29, 1935–65	1922–27, 29, 35–65

Station No.	Station	Altitude (m)	1. Mean number of days with hail	1a. Greatest number of days with hail
			Years of observations	
4	Кукобой	150	1937–65	–
142	Куровское . . .	123	1929–44, 50–65	1929–44, 50–65
160	Куртино	165	1914–35	1914–35
141	Ленино-Дачное .	172	1952–65	–
61	Лихославль . . .	150	1942–65	–
120	Лосиноостровская	147	1932, 36–65	1932, 36–65
189	Ляхи	120	1897–05, 07–14, 1930–35	–
45	Максатиха . . .	139	1925–65	1925–65
158	Малино	163	1913–35, 41	1913–35, 41
219	Малоярославец .	195	1927–29, 31–65	1927–29, 31–65
188	Меленки	130	1924–65	1924–65
178	Милиново . . .	150	1904–20	–
11	Милюшино . . .	131	1945–65	–
242	Михайлов . . .	164	1904–06, 08, 11–20, 24–58, 1962–65	1904–06, 08, 11–20, 24–58, 62–65
157	Михнево	178	1923–65	1923–65
146	Можайск	184	1932–65	1932–65
85	Молодой Туд . .	200	1943–65	–
224	Мосальск	223	1937–39, 41, 43–65	1937–39, 41, 1943–65
124	Москва, ВДНХ .	149	1948–65	1948–65
130	Москва, ГМО . .	124	1947–65	–
128	Москва, межевой институт . . .	160	1891–12, 14–16, 23–29, 31	–
126	Москва, Сокольники	152	1925–32, 46–47, 49–65	1925–32, 46–47, 1949–65
121	Москва, с.-х. академия	167	1891–44, 48–65	1891–44, 48–65
91	Мостовая . . .	250	1943–60	–
183	Мошок	165	1932–65	1932–65
249	Муравейня и Гремячка	157	1891–16, 23–42	1891–16, 23–42
186	Муром	119	1891–1906, 24–65	1891–06, 24–65
115	Мысово	178	1921–34	–
12	Мыс Рожновский	103	1951–65	–
22	Мышкино . . .	119	1895–12, 20–65	1895–12, 20–65
32	Нагорье	160	1903–19	–
151	Наро-Фоминск . .	166	1941–65	1941–65
24	Некрасовское . .	100	1937–47, 49–65	–
133	Немчиновка . . .	177	1944–65	1944–65
118	Ново-Иерусалим .	159	1926–29, 31–65	1926–29, 31–65
196	Ново-Пречистое .	244	1937–40, 44–52, 1957–65	1937–40, 44–52, 1957–65
98	Пушполы . . .	133	1948–65	–
20	Обухово	125	1925–65	1925–65
162	Озеры	135	1916–19, 22–35	–
67	Оршинская дача	147	1908–30, 32–40	1908–30, 32–40
59	Осташков . . .	218	1923–65	1923–65
246	Павелец	209	1927–34, 36–55, 1963–65	1927–34, 36–55, 1963–65
129	Павловский Посад	134	1902–03, 31–65	1902–03, 31–65
33	Переславль-Залесский	174	1920–23, 34–65	1920–23, 34–65
105	Пестриково . . .	225	1914–35	–
181	Петушки	147	1931–40, 42–65	1931–40, 42–65

Station No.	Station	Altitude (m)	1. Mean number of days with hail	1a. Greatest number of days with hail
			Years of observations	
261	Плавск и Паточная	180	1928–29, 34–43, 1953–65	–
99	Подмонастырская слобода	125	1911–36	–
131	Подмосковная	177	1946–65	1946–65
169	Покров	130	1904–38	1904–38
137	Полушкино	135	1920–33	–
117	Починки	137	1913–28, 31–65	1913–28, 31–65
213	Починок	206	1936–40, 44–65	1936–40, 44–65
6	Пошехонье-Володарск	109	1899–1901, 03–11, 15, 20–65	1899–1901, 03–11, 15, 20–65
7	Пустынь и Ильинское	150	1937–38, 40–41, 46–65	–
74	Пьянково	219	1944–49, 55–65	–
89	Ржев	195	1894–1897, 1901–19, 24–65	1894–1897, 1901–19, 1924–65
217	Рославль	219	1892–1910, 13–14, 19–28, 31–32, 36–40, 44–65	1892–1910, 13–14, 19–28, 31–32, 36–40, 44–65
31	Ростов	99	1899–1904, 23–65	1899–1904, 23–65
207	Рудня	188	1936–46, 44–45, 51–65	1936–40, 44–45, 51–65
15, 18	Рыбинск	104	1922–65	1922–65
111	Рябинки	121	1913–28, 35	–
52	Рид	161	1945–65	–
247	Ряжск	125	1895–96, 1901–04, 28–30, 32–65	1895–96, 1901–04, 28–30, 32–65
237	Рязань	156	1906–08, 11–20, 23–65	1906–08, 11–20, 23–65
72	Савелово	122	1936–65	1936–65
244	Сапожок	150	1928–65	1928–65
239	Сасово	114	1923–65	1923–65
203	Сафоново	210	1944–65	1944–65
180	Селивановское оп. поле	129	1914–16, 19–65	1914–16, 19–65
86	Сергиево	150	1897–1917, 19	–
161	Серпухов	163	1928–65	1928–65
164	Сима	150	1934–65	1934–65
28	Симаницы	148	1946–65	–
245	Скопин	150	1891–97, 1903–05, 07–16, 35, 37–65	1891–97, 1903–05, 07–16, 35, 37–65
211	Смоленск	233	1891–1908, 10–11, 14, 25–40, 44–65	1891–1908, 10–11, 14, 25–40, 44–65
140	Собакино	187	1915–19, 21–29, 31–41, 43–65	1915–19, 21–29, 31–41, 43–65
208	Соловьево	183	1944–65	1944–65
266	Спас-Деменск	237	1936–40, 44–65	1936–40, 44–65
41	Спас-Забережье	141	1944–65	–
153	Спас-Коснцы	175	1915–36	1915–36
82	Старица	179	1892–99, 1901–04, 10–17, 23, 25–30, 36–40, 1944–1965	1892–99, 1901–04, 10–17, 23, 25–30, 36–40, 44–65
241	Старожилово	149	1893–1897, 1925, 27–29, 31–65	1893–1897, 1925, 27–29, 31–65
107	Стрелецкая слобода	195	1916–33	–
166	Суздаль	125	1925–65	1925–65
228	Сухиничи	237	1936–40, 43–65	1936–40, 43–65

Station No.	Station	Altitude (m)	1. Mean number of days with hail	1a. Greatest number of days with hail
			Years of observations	
132	Сытьково и Руза	185	1914–30, 33–36	14–30, 33–36
191	Сычевка	200	1935, 37–40, 44–48 56–59	–
112	Тимашево	210	1914–35	–
53	Толмачи	186	1938–40, 42–58	–
65	Торжок	171	1903–05, 37–40, 42–65	1903–05, 37–40, 42–65
84	Торопец	187	1923–40, 45–65	1923–40, 45–65
172	Троицы	135	1950–65	–
150	Тропарево	180	1913–23, 29–36	–
255	Тула	155	1897–1917, 25–65	1897–1917, 25–65
233	Тума	123	1925–29, 31–65	1925–29, 31–65
83	Тургиново	130	1913–41, 44–65	1913–41, 44–65
21	Тутаев	125	1902–10, 26–35, 44–65	1902–10, 26–35, 44–65
123	Тушино	140	1935, 38–41, 46, 48–65	1935, 38–41, 46, 48–65
26	Углич	124	1924–31, 33–65	1924–31, 33–65
44	Удомля	210	1946–65	–
256	Узловая	240	1931–41, 43–65	1931–41, 43–65
34	Успенский с.-х. техникум	240	1895–1929, 32–65	1895–1929, 32–65
197	Устье	191	1947–65	–
229	Фаянсовая и Киров	208	1937–40, 44–65	1937–40, 44–65
179	Фоминки	120	1907–19, 25–40	1907–19, 25–40
254	Ханино	200	1944–60	–
155	Хлевино	160	1913–19, 25–29, 33–36, 51–65	1913–19, 25–29, 1933–36, 51–65
116	Черкизово	170	1912–35	–
263	Чернь и Скуратово	245	1893–1904, 11–16, 25–30, 32–41, 44–65	1893–1904, 11–16, 1925–30, 32–41, 44–65
187	Черсево	120	1929–65	1929–65
145	Черусти	127	1926–65	1926–65
9	Шарна	101	1945–35	
109	Шаховская	188	1915–18, 21–29, 33–65	1915–18, 21–29, 33–65
243	Шацк	121	1937–65	1937–65
152	Шебанцево	180	1915–32	–
240	Шилово	98	1932–65	1932–65
47	Шлинский гидроузел	202	1951–65	–
206	Шокино	229	1946–65	–
149	Щаповский с.-х. техникум	210	1914–19, 21–31	–
165	Юрьев-Польский	152	1925–65	1925–65
108	Ярополец	158	1913–27	–
25	Ярославль	98	1922–65	1922–65
101	Яхрома, низинная ст.	126	1915, 17, 22–41	–

[redacted] 255

LIST OF METEOROLOGICAL STATIONS AND POSTS

Station No.	Station (post)	Station No.	Station (Post)	Station No.	Station (post)
YaROSLAVSKAYa OBLAST		KALININSKAYa OBLAST		68. Yarovinka	
1. Myaksa		35. Ves'yegonsk		69. Izvedovo	
2. Vladychnoye		36. Kes'ma		70. Mednoye	
3. Gayutino		37. Berezovskiy Ryadok		71. Verkhnevolzhskiy beyshlot	
4. Kukoboy		38. Styazhki		72. Savelovo	
5. Semenovskoye		39. Kotlovan		73. Kalinin	
6. Poshekhon'ye-Volodarsk		40. Krasnyy Kholm		74. P'yankovo	
7. Pustyn' and Il'inskoye		41. Spas-Zaberezh'ye		75. Bdyn'	
8. Fedino		42. Bologoye		76. Davydovo	
9. Sharna		43. Zaluchka		77. Vidogoshi	
10. Breytovo		44. Udomlya		78. Konakovo	
11. Milyushino		45. Maksatikha		79. Redkino, TOS [expansion unknown; possibly technical experimental station]	
12. Mys Rozhnovskiy		46. Bezhetsk		80. Lukovnikovo	
13. Danilov		47. Shlinskiy hydraulic power system		81. Yemel'yanovo	
14. Ignatovo		48. Usaty		82. Staritsa	
15. Rybinsk, GMO [Hydrometeorological station]		49. Rozhdestvo		83. Turginovo	
16. Koprino		50. Kesova Gora		84. Toropets	
17. Isady		51. Vyshniy Volochek		85. Molodoy Tud	
18. Rybinsk, city		52. Ryad		86. Sergino	
19. Glebovo		53. Tolmachi		87. Khlopovo-Gorodishche	
20. Obukhovo		54. Vysokovo		88. Zapadnaya Dvina	
21. Tutayev		55. Kashin		89. Rzhev	
22. Myshkino		56. Bol'shiye Setki		90. Nelidovo	
23. Novoye Selo		57. Semenovskoye		91. Mostovaya	
24. Nekrasovskoye		58. Ivanovskoye		92. Nikulino	
25. Yaroslavl'		59. Ostashkov		93. Bol'shoye Kobyakovo	
26. Uglich		60. Goritsy		94. Belyy	
27. Vduli		61. Likhoslavl'		95. Shchuch'ye	
28. Simanitsy		62. Troitsa-Nerl'		MOSKOVSKAYa OBLAST	
29. Vyeska		63. Zarech'ye		96. Dubna	
30. Vysokovo		64. Kuvshinovo			
31. Rostov		65. Torzhok			
32. Nagor'ye		66. Vseluki			
33. Pereslavl'-Zalesskiy		67. Orshinskaya dacha			
34. Uspenskiy Agricultural Technical School					

[redacted] 254

Station No.	Station (post)	Station No.	Station (post)
97.	Zyat'kovo and Starikovo	128.	Moscow Mezhevoy institut
98.	Nushpoly	129.	Pavlovskiy Posad
99.	Podmonastyrskaya sloboda	130.	Moscow GMO
100.	Borshchevo	131.	Podmoskovnaya
101.	Yakhroma, lowland sta.	132.	Syt'kovo and Ruza
102.	Klin	133.	Nemchinovka
103.	Dmitrov	134.	Moscow, MGU [Moscow State University]
104.	Zagorsk	135.	Bogayevo
105.	Pestrikovo	136.	Moscow, ZIL [ZIL auto plant]
106.	Brenevo	137.	Polushkino
107.	Streletskaya sloboda	138.	Bykovo
108.	Yaropolets	139.	Gzhel'
109.	Shakhovskaya	140.	Sobakino
110.	Volokolamsk	141.	Lenino-Dachnoye
111.	Ryabinki	142.	Kurovskoye
112.	Timashevo	143.	Krivandino
113.	Mishnevo	144.	Krasnovidovo
114.	Kryukovo	145.	Cherusti
115.	Mysovo	146.	Mozhaysk
116.	Cherkizovo	147.	Zakhar'ino
117.	Pochinki	148.	Makarovo
118.	Novo-Ierusalim	149.	Shchapovskiy Agricultural Technical School
119.	Vatutino	150.	Troparevo
120.	Losinoostrovskaya	151.	Naro-Fominsk
121.	Moscow Agricultural Academy	152.	Shebantsevo
122.	Pavlovskaya sloboda	153.	Spas-Kositsy
123.	Tushino	154.	Staryy Spas
124.	Moscow VDNKh [Exhibition of Achievements of the National Economy]	155.	Khlevino
125.	Pavshino	156.	Kolomna
126.	Moscow Sokol'niki	157.	Mikhnevo
127.	Karpovka	158.	Malino
		159.	Vikhrovo and Novoselki
		160.	Kurtino
		161.	Serpukhov
		162.	Ozery
		163.	Kashira

Station No.	Station (post)	Station No.	Station (post)
VLADIMIRSKAYa OBLAST		SMOLENSKAYa OBLAST	
164.	Sima	190.	Karmanovo
165.	Yur'yev-Pol'skiy	191.	Sychevka
166.	Suzdal'	192.	Kozeyevshchina
167.	Sannikova and Yablontsy	193.	Volshevo
168.	Aleksandrov	194.	Velizh
169.	Pokrov	195.	Gzhatsk
170.	Kovrov	196.	Novo-Prechistoye
171.	Vyazniki	197.	Ust'ye
172.	Troitsy	198.	Demidov
173.	Kirzhach	199.	Vyz'ma
174.	Gorokhovets	200.	Batishchevo
175.	Vladimirskoye experimental field	201.	Dukhovshchina
176.	Vladimir	202.	Nadezhda
177.	Vyatkino and Baraki	203.	Safonovo
178.	Milinovo	204.	Mukhino
179.	Fominki	205.	Temkino
180.	Selivanovskoye experimental field.	206.	Shokino
181.	Petushki	207.	Rudnya
182.	Berezniki	208.	Solov'yevo
183.	Moshok	209.	Dorogobuzh
184.	Kryukovo	210.	Debrya
185.	Gus'-Khrustal'nyy	211.	Smolensk
186.	Murom	212.	Yel'nya
187.	Chersevo	213.	Pochinok
188.	Melenki	214.	Krasilovka
189.	Lyakhi	215.	Uskosy
		216.	Aleksadrovka
		217.	Roslavl'
		218.	Yershichi
		KALUZHSKAYa OBLAST	
		219.	Maloyaroslavets
		220.	Malakhovo

Station No.	Station (post)
221.	Mokraya
222.	Belikovo
223.	Andreyevskoye
224.	Mosal'sk
225.	Kaluga
226.	Spas-Demensk
227.	Sobolevka
228.	Sukhinichi
229.	Fayansovaya and Kirov
230.	Kozel'sk
231.	Khot'kovo
RYaZANSKAYa OBLAST	
233.	Tuma
234.	Yelat'ma
235.	Kasimov
236.	Rybnoye and Staroye Veselovo
237.	Ryazan'
238.	Kadom
239.	Sasovo
240.	Shilovo
241.	Starozhilovo
242.	Mikhaylov
243.	Shatsk
244.	Sapozhok
245.	Skopin
246.	Pavelets
247.	Ryzhsk
248.	Verda
249.	Murayevnya and Gremyachka
TUL'SKAYa OBLAST	
250.	Yegnyshevka
251.	Zhukovo
252.	Aleksin
253.	Venev
254.	Khanino
255.	Tula
256.	Uzlovaya
257.	Orlovo
258.	Mel'gunovo
259.	Belev
260.	Bogoroditsk Agricultural Technical School
261.	Plavsk and Patochnaya
262.	Volovo
263.	Chern' and Skuratovo
264.	Arkhangel'skoye
265.	Yeffemov

[redacted] 259

NECESSARY CORRECTIONS TO "REFERENCE BOOK ON CLIMATE OF THE USSR", 8th EDITION

Page	No. & name of station	Columns	Line	Printed	Should be
Part I - Solar radiation, radiation balance, and solar aurora (ed. 1966)					
50	1. Пом	VI	Время 0 30 Радиация *B*	−0.8	−0.08
51	8. Торжок	VI	Время 6 30 Радиация *S*	0.96	0.94
		VI	Время 6 30 Радиация *S'*	0.34	0.36
		VIII	Время 6 30 Радиация *S*	86.0	0.86
53	10. Торопец	I	Время 15 30 Радиация *B*	0.05	−0.05
57	29. Павелец	XI	Время 6 30 Радиация *D*	−0.08	
		XI	Время 6 30 Радиация *B*	—	−0.08
		XII	Время 6 30 Радиация *Q*	−0.06	
		XII	Время 6 30 Радиация *B*		−0.06

[Note: Время = Time; Радиация = Radiation]

Part II - Wind (ed. 1966)

26	64 Юрьев-Польский	C3	K	66	6в
30	95. Киров	II	SW	19	18
32	103 Михайлов	VII	Calm	6	5
47	106 Ряжск	VII, 1 hour		3.1	2.1
156	89. Рославль	Table 4		1942—1950 1954—1960	—

Part IV - Humidity of air, atmospheric precipitation, snow cover (ed. 1967)

92	413. Рязань	X	19 hour	62	82
143	72. Красный Холм	IX		67	62
		X		56	61
147	233. Москва, ЗИЛ	IV—X		426	440
153	466 Успенское	Year		719	709
178	413. Рязань	Mean maximum, X, 2d 10-day period			34
288	26 Глебово	Altitude 0		76	78
291	70. Котлован	II, 1st 10-day period Altitude 6-10		13	3
307	197 Починки	Latest date of appearance of snow cover			
				13 XI	13 XII
	198 Ново-Иерусалим	The same		15 XI	15 XII
	200. Лосиноостровская	"		8 XI	8 XII
	239 Собакино	"		14 XI	14 XII
309	364. Монастырщина	Latest date of snow cover's departure			
				19 IV	19 V

DISTRIBUTION LIST

DISTRIBUTION DIRECT TO RECIPIENT

ORGANIZATION		MICROFICHE
A205	DMATC	1
A210	DMAAC	2
B344	DIA/RDS-3C	9
C043	USAMIIA	1
C509	BALLISTIC RES LABS	1
C510	AIR MOBILITY R&D LAB/FIO	1
C513	PICATINNY ARSENAL	1
C535	AVIATION SYS COMD	1
C591	FSTC	5
C619	MIA REDSTONE	1
D008	NISC	1
H300	USAICE (USAREUR)	1
P005	DOE	1
P050	CIA/CRS/ADD/SD	1
NAVORDSTA (50L)		1
NASA/KSI		1
AFIT/LD		1
LLL/Code L-389		1

ORGANIZATION		MICROFICHE
E053	AF/INAKA	1
E017	AF/RDXTR-W	1
E403	AFSC/INA	1
E404	AEDC	1
E408	AFWL	1
E410	ADTC	1
E413	ESD	2
	FTD	
	CCN	1
	ASD/FTD/NIIS	3
	NIA/PHS	1
	NIIS	2